



ENVIRONMENTAL MONITORING OF DREDGING AND PROCESSES IN LOWER LAGUNA MADRE, TEXAS

Data Report
September, 1994 - May, 1997

by

Cheryl A. Brown

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**U.S. Army Corps of Engineer District, Galveston
2000 Fort Point Blvd.
Galveston, Texas 77553**

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Conrad Blucher Institute for Surveying and Science



**Texas A&M University-Corpus Christi
The Island University**

Introduction

This report presents the data collected for the study entitled "Environmental Monitoring of Dredging and Processes in Lower Laguna Madre, Texas" during the interval of September, 1994 through February, 1997 (some data for March - April, 1997 also included). The objectives of this study are to assess the flow and sediment transport conditions and to identify possible modifications of the dredging practice to both reduce environmental impacts and to minimize the cost and frequency of dredging. The main issues of concern in the monitoring project are 1) encroachment of sediment on seagrass beds and reduction of light within the water column, 2) encroachment of sediment into wetlands; 3) transport of dredged material back into the GIWW and loss of material from placement areas, and 4) understanding of cause-and-effect relations between hydrodynamic forcing and sediment transport.

Description of the Data-Collection Effort

In late August, 1994, three data-collection platforms, denoted as LLM1, LLM 2, and LLM3, were emplaced along a line running approximately transversely to the GIWW at Channel Marker 91 in the lower Laguna Madre (see map of study area and Table 1 for location). The main monitoring platform (LLM1), located to the west of Disposal Area 233, was instrumented with acoustical and optical instruments (presented in Table 2) as well as dataloggers, batteries, solar panels, and radio communications equipment. The radio communication equipment provided near-real time data-collection capabilities, including the ability to remotely download data and check the status of the systems. The two other data-collection platforms, LLM2 and LLM3, which are located inside Disposal Area 233 and to the east of the GIWW, respectively, were equipped with only automated water samplers. The water depth at LLM1, LLM2, and LLM3 is approximately 1.5 m (5 ft) and the bottom type is unvegetated.

In June, 1996, LLM2 and LLM3 were disabled and an additional instrumented data-collection platform, referred to as LLM2a, was deployed in a *Thalassia testudinum* bed located to the east the GIWW in a water depth of approximately 1 m (3.3 ft).

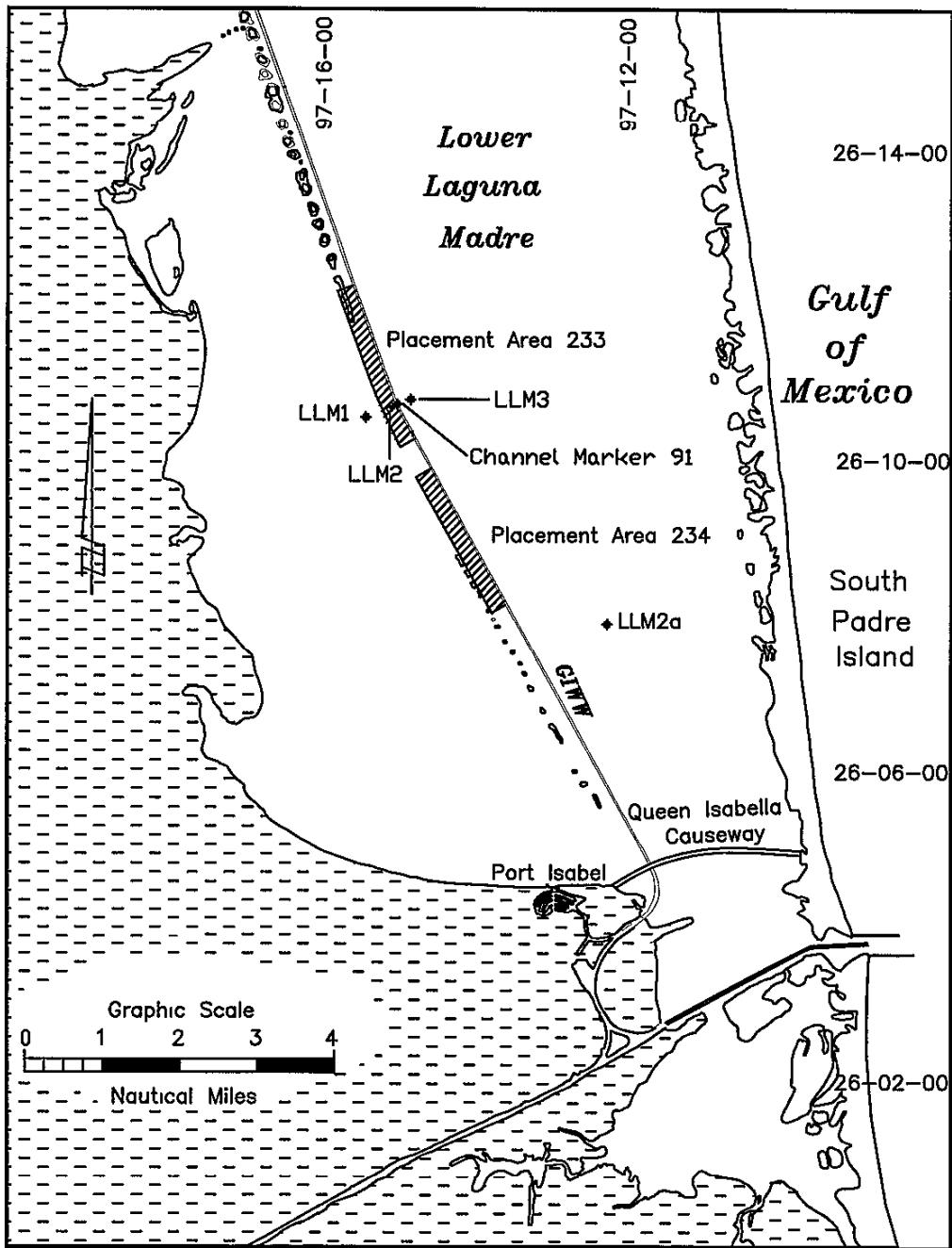


Table 1. Location and deployment dates for data-collection stations in lower Laguna Madre (LLM).

Station Name	Position	Deployment Dates
LLM1	26 10' 45" N / 97 15' 36" W	9/94 - present
LLM2	26 10' 51" N / 97 15' 18" W	9/94 - 6/96
LLM2a	26 8' 5" N / 97 12' 28" W	6/96 - present
LLM3	26 10' 58" N / 97 15' 4" W	9/94 - 6/96

Table 2. Measured parameters and associated equipment

Instrument	Parameter	Station
Sontek Acoustic-Doppler Velocimeter (ADV)	3 components of current velocity	LLM1, LLM2a
Hydrolab® Multiparameter unit	Turbidity, water temperature, conductivity, pH, and dissolved oxygen (Salinity computed internally)	LLM1
Chelsea Instruments Fluorometer	Concentration of chlorophyll-a	LLM1
Sea-Tec Fluorometer	Concentration of chlorophyll-a	LLM2a
LI-COR Photosynthetically-Active Radiation (PAR) sensors	Incident and underwater light irradiance	LLM1, LLM2a
Isco® Automated water sampler	Concentration of total suspended solids	LLM1, LLM2, LLM3 LLM2a
Druck Pressure Sensor	Water elevation and wave height	LLM2a
Seapoint Turbidity Sensor	Turbidity	LLM2a

Equipment

Acoustic-Doppler Velocimeter

Three components of water velocity, north-south (u), east-west (v), and vertical (w), were measured continuously using an acoustic-Doppler velocimeter (ADV) (SonTek, San Diego, California, USA), which measures the three components of flow velocity at a point based on the Doppler-shift principle. The ADV has a centrally-located transmitting transducer surrounded by three receiving transducers mounted on arms orientated at 120 deg angles. The transmitting transducer emits periodic short acoustic pulses which are scattered by material in the water column, such as bubbles and suspended material which are assumed to move at the speed of the water flow. These acoustic echoes are detected by the receivers. By knowledge of the orientation of the acoustic beams and the principle that the frequency of the echo is Doppler shifted according to the relative motion of the scattering material, the orthogonal components of current velocity are computed. The ADV has a resolution of 0.1 mm/sec over the range of 0 to 2.5 m/sec and an accuracy of $\pm 0.25\%$ or ± 0.25 cm/sec, whichever is greater (Kraus, *et al.* 1994). At LLM1, the sampling rate of the ADV was 1 Hz (1 sample per second) with 6-min averages of each component of the water velocity, signal-to-noise ratio, and correlation coefficients stored in the on-site datalogger. At LLM2a, the ADV was sampled at 8 Hz for 9-min every half hour. The signal-to-noise ratio and correlation coefficients were used to determine the quality of the velocity data and to identify problems associated with the hardware, such as misaligned receivers or biofouling of the transmitters or receivers. The ADV is

mounted at mid-depth with the probe orientated in such a manner that positive flow (u , v , w) components are directed towards the north, west, and upwards, respectively.

PAR Sensors

Measurements of photosynthetically active radiation (PAR), which is light with wavelengths of 400 to 700 nm, were collected continuously using a LI-193SA spherical (4π) quantum-sensor (underwater) and LI-190SA cosine-corrected (2π) quantum sensor (surface) providing input to a LI-1000 datalogger (LI-COR Inc., Lincoln, Nebraska, USA). The underwater sensors at LLM1 and LLM2a was located about 25 cm (0.8 ft) above the seabed to minimize fouling by drift algae and seagrass blades. Sensor locations were selected to avoid shading by the platform structure (south-east corner). Instantaneous PAR was measured at 1-min intervals and integrated hourly. Light sensors are calibrated or checked for accuracy annually and are accurate to $\pm 5\%$ (traceable to National Bureau of Standards), stability is $\pm 2\%$ over any 1-year period, and data are recorded with a precision of $\pm 0.01 \mu\text{mol photons per m}^2 \text{ per sec}$.

Water Quality Multiprobe

Water-quality parameters were monitored using a H20[®] Water Quality Multiprobe (Hydrolab[®] Corporation, Austin, Texas, USA), equipped with turbidity, water temperature, conductivity, pH, and dissolved oxygen sensors. The Hydrolab is sampled every 2 minutes and data are logged using the Blucher Data Collector. The Hydrolab units deployed in the field are calibrated in the laboratory prior to deployment. The specific conductance, pH, and turbidity sensors are calibrated using standard solutions. The pH and turbidity sensors are calibrated using a slope-calibration method and the conductivity sensor is calibrated using a one-point calibration with a standard solution with a conductivity similar to that observed in the field. The turbidity sensor is calibrated using 0.2-μm filtered, deionized water and 90 ntu formazin standard. The dissolved oxygen sensor is air-calibrated at atmospheric pressure. The temperature sensor was calibrated by the manufacturer during fabrication and is considered stable for 3 years.

Fluorometer

Chlorophyll-a levels were continuously monitored using an Aquatracka III fluorometer (Chelsea Instruments, Surrey, UK). The fluorometer optically determines the concentration of chlorophyll-a by exciting a specimen within the sampling volume with a beam of pulsed visible and ultra-violet light, and comparing the intensity of the fluorescence excitation to that of a reference beam generated by the same light source. Chlorophyll-a is measured over a range of 0 to 100 μg/L with an accuracy of $\pm 0.02 \mu\text{g/L}$.

plus 5% of value. However, because the fluorometer optically determines the concentration of chlorophyll-a, it is susceptible to biofouling when deployed in a biologically-productive environment. The fluorometer was factory-calibrated by the manufacturer, and the calibration was confirmed by Blucher Institute staff prior to deployment of the instrument. The fluorometer was calibrated by exposing it to approximately seven different concentrations of chlorophyll-a dissolved in acetone, in addition to deionized water and pure acetone. The fluorometer output was then related to chlorophyll-a concentration using a linear relationship. The fluorometer was logged using a Blucher Data Collector and sampled at a rate of one instantaneous reading every 2 min.

Water Samples

Mid-depth water samples were collected twice daily at 6:00 AM and 6:00 PM (local time) using a 3700 Portable Sampler (Isco®, Lincoln, Nebraska, USA). During approximately weekly routine servicing, the samples were removed from the water sampler and transported to the Blucher Institute for analysis. The samples were analyzed for total suspended solids. Total suspended solids concentration was determined by filtering a known volume of the sample twice, using two pre-weighed filters, a 1- μm glass fiber filter and a 0.45- μm cellulose filter, which were then dried at 65°C to constant weight. The volume of sample filtered was typically 500 mL, however, if the sample contained a relatively large amount of sediment, determined visually, the volume filtered was reduced to 250 to 300 mL. Once the concentration of total suspended solids was determined, the filters were archived.

Maintenance of Data-Collection Platforms

Regular maintenance of the fixed platforms was performed approximately once a week, as weather permitted, with duties including inspection of the data-collection and power systems, field cleaning of the ADV, surface and underwater PAR sensors, and fluorometer, weekly exchange of the Hydrolab unit with a laboratory-calibrated unit and post-calibration of the instrument returned from the field, replacement of the sample bottles in the automated samplers, and replacement of batteries and desiccant, as needed. Upon removal from the automated water sampling unit, sample bottles were labeled and transported to the Blucher Institute for analysis. Table 3 presents a brief description of each maintenance servicing for use in data analysis (e.g., determining degree of biofouling).

Table 3. Chronology of events for lower Laguna Madre environmental monitoring.

Date (1994-1997)	Event
12 Aug 94	Received authorization to proceed
12-27 Aug 94	Equipment procurement and testing, coordinated planning, mobilization for pre-dredging survey
28 Aug 94	Began installation of LLM1, 2, and 3, performed synoptic survey
29 Aug 94	Completed installation of LLM1, 2, and 3, performed synoptic survey
30 Aug 94	Installed equipment on platforms, conducted seagrass sampling, performed synoptic survey, and commenced data collection at LLM1
31 Aug 94	Performed synoptic survey
1 Sep 94	Performed synoptic survey
2 Sep 94	Performed bathymetric survey
9 Sep 94	Replaced Isco bottles at LLM1
11 Sep 94	Replaced Isco bottles at LLM2 and 3
12 Sep 94	Replaced Hydrolab
14 Sep 94	Retrieved and replaced PAR sensor datalogger at LLM1
18 Sep 94	Replaced Hydrolab
20 Sep 94	Cleaned instruments at LLM1
21-22 Sep 94	Performed synoptic survey, Replaced Isco bottles at LLM1, 2, and 3
22 Sep 94	Replaced Hydrolab
26 Sep 94	Cleaned instruments at LLM1
30 Sep 94	Replaced Hydrolab
2 Oct 94	Cleaned instruments at LLM1, Replaced Isco bottles at LLM1, 2, and 3
5 Oct 94	Cleaned instruments at LLM1
5-7 Oct 94	Performed synoptic during-dredging survey
10 Oct 94	Replaced Hydrolab
12 Oct 94	Retrieved and replaced PAR sensor datalogger at LLM1
13 Oct 94	Cleaned instruments at LLM1, replaced Isco bottles at LLM1, 2, and 3
17 Oct 94	Replaced Hydrolab
22 Oct 94	Replaced Hydrolab
25 Oct 94	Cleaned instruments at LLM1
25-26 Oct 94	Attempted additional during-dredging survey, aborted due to weather
28 Oct 94	Replaced Isco bottles at LLM1, 2, and 3
30 Oct 94	Replaced Hydrolab
1 Nov 94	Cleaned instruments at LLM1
5 Nov 94	Replaced Hydrolab
7 Nov 94	Cleaned instruments at LLM1, Replaced Isco bottles at LLM1, 2, and 3
11 Nov 94	Replaced Hydrolab
16-17 Nov 94	Performed post-dredging bathymetric survey
18 Nov 94	Replaced Hydrolab, Replaced Isco bottles at LLM1, 2, and 3, Performed synoptic survey,
22 Nov 94	Replaced Hydrolab
30 Nov 94	Replaced Hydrolab, Replaced Isco bottles at LLM1, 2, and 3
2 Dec 94	Cleaned instruments at LLM1
7 Dec 94	Replaced Hydrolab
12 Dec 94	Replaced Hydrolab
15 Dec 94	Installed new data collector at LLM1
19 Dec 94	Replaced Hydrolab
28 Dec 94	Replaced Hydrolab

Table 3. Chronology of events for lower Laguna Madre environmental monitoring

Date (1994-1997)	Event
7 Jan 95	Replaced Hydrolab, Replaced Isco bottles at LLM1, 2, and 3
9 Jan 95	Field cleaned Hydrolab, Replaced batteries, and reset radio
13 Jan 95	Installed new data collector and software at LLM1
17 Jan 95	Replaced and post-calibrated Hydrolab
18 Jan 95	Replaced Isco bottles at LLM1, 2, and 3
24 Jan 95	Installed track for ADV at LLM1, Replaced and post-calibrated Hydrolab
27 Jan 95	Field cleaned Hydrolab unit, ADV, and fluorometer
31 Jan 95	Replaced Hydrolab
4 Feb 95	Cleaned instruments at LLM1
9 Feb 95	Replaced and post-calibrated Hydrolab, replaced Isco bottles at LLM1, 2, and 3
20 Feb 95	Replaced Hydrolab, replaced Isco bottles at LLM1, 2, and 3
24 Feb 95	Cleaned instruments at LLM1
28 Feb 95	Replaced Hydrolab
6 Mar 95	Cleaned instruments and replaced Hydrolab at LLM1
13 Mar 95	Cleaned instruments at LLM1
14 Mar 95	Cleaned instruments and replaced Hydrolab at LLM1
18 Mar 95	Replaced Isco bottles at LLM1, 2, and 3
21 Mar 95	Cleaned instruments and replaced Hydrolab at LLM1
23 Mar 95	Replaced Isco bottles at LLM1, 2, and 3
28 Mar 95	Cleaned instruments and replaced Hydrolab at LLM1
2 Apr 95	Cleaned instruments and replaced Hydrolab at LLM1, Replaced Isco bottles at LLM1
10 Apr 95	Cleaned instruments at LLM1
18 Apr 95	Cleaned instruments and replaced Hydrolab at LLM1, Cleaned sensor and replaced datalogger for PAR sensor
21 Apr 95	Replaced ADV at LLM1
22-23 Apr 95	Attempted to replace ADV at LLM1
25 Apr 95	Cleaned instruments and replaced Hydrolab at LLM1, Replaced ADV
3 May 95	Replaced ADV
9 May 95	Replaced ADV, Replaced and post-calibrated Hydrolab, Replaced Isco bottles at LLM1, 2, and 3
16-17 May 95	Attempted 6-month post-dredging survey, aborted due to weather
18 May 95	Cleaned instruments and replaced Hydrolab at LLM1, Replaced Isco bottles at LLM1, 2, and 3, Replaced ADV and fluorometer
24 May 95	Serviced PAR sensors at LLM1
25 May 95	Cleaned instruments and replaced Hydrolab at LLM1, Replaced Isco bottles at LLM1, 2, and 3
1 Jun 95	Cleaned instruments and replaced Hydrolab at LLM1, Replaced Isco bottles at LLM1, 2, and 3
8 Jun 95	Cleaned instruments and replaced Hydrolab at LLM1, Replaced Isco bottles at LLM1, 2, and 3
19 Jun 95	Cleaned instruments and replaced Hydrolab at LLM1, Replaced Isco bottles at LLM1, 2, and 3
27 Jun 95	Cleaned instruments and replaced Hydrolab at LLM1, Replaced Isco bottles at LLM2 and 3, Removed water sampler at LLM1 (faulty cable)
27-30 Jun 95	Performed 6-month post-dredging bathymetric survey
30 Jun 95	Serviced PAR sensors at LLM1
6 Jul 95	Cleaned instruments and replaced Hydrolab at LLM1, Replaced Isco bottles at LLM2 and 3, Re-installed water sampler at LLM1, Replaced batteries at LLM1
18 Jul 95	Cleaned instruments and replaced Hydrolab at LLM1, Replaced Isco bottles at LLM1, 2, and 3
27 Jul 95	Cleaned instruments and replaced Hydrolab at LLM1, Replaced Isco bottles at LLM1, 2, and 3
	Cleaned instruments and replaced Hydrolab at LLM1, Replaced Isco bottles at LLM1, 2, and 3,

Table 3. Chronology of events for lower Laguna Madre environmental monitoring.

Date (1994-1997)	Event
7 Aug 95	Removed ADV signal processing unit
18 Aug 95	Cleaned instruments at LLM1, Replaced and post-calibrated Hydrolab, Replaced Isco bottles at LLM1, 2, and 3, Rep ADV signal processing unit
29 Aug 95	Cleaned instruments and replaced Hydrolab at LLM1, Replaced Isco bottles at LLM1, 2, and 3
7 Sep 95	Cleaned instruments and replaced Hydrolab at LLM1, Replaced Isco bottles at LLM1, 2, and 3
19 Sep 95	Attempted to service stations, aborted due to weather
25 Sep 95	Cleaned instruments and replaced Hydrolab at LLM1, Replaced Isco bottles at LLM1, 2, and 3
2 Oct 95	Cleaned instruments and replaced Hydrolab at LLM1, Replaced Isco bottles at LLM1 and 2, Repaired water sampler at LLM3
Oct-Nov 95	<i>Note Station serviced, however, documentation missing</i>
1 Nov 95	Cleaned instruments and replaced Hydrolab at LLM1, Replaced Isco bottles at LLM1, 2, and 3, Replaced ADV at LLM1
10 Nov 95	Cleaned instruments and replaced Hydrolab at LLM1, Replaced Isco bottles at LLM1, 2, and 3
21 Nov 95	Cleaned instruments and replaced Hydrolab at LLM1, Replaced Isco bottles at LLM1, 2, and 3, Problem with TNC, Water sampler malfunctioned at LLM1, Replaced ADV
30 Nov 95	Cleaned instruments and replaced Hydrolab at LLM1, Replaced Isco bottles at LLM1, 2, and 3, Replaced intake hoses on water samplers
12 Dec 95	Cleaned instruments and replaced Hydrolab at LLM1, Replaced Isco bottles at LLM1, 2, and 3
12-15 Dec 95	Performed 1-year post-dredging bathymetric survey
21 Dec 95	Cleaned instruments and replaced Hydrolab at LLM1, Replaced Isco bottles at LLM1, 2, and 3, Replaced ADV probe, Removed ADV signal processing unit
27 Dec 95	Cleaned instruments and replaced Hydrolab at LLM1, Replaced Isco bottles at LLM1, 2, and 3, Replaced ADV signal processing unit
8 Jan 96	Cleaned instruments and replaced Hydrolab at LLM1, Replaced Isco bottles at LLM1, 2, and 3
19 Jan 96	Cleaned instruments and replaced Hydrolab at LLM1, Replaced Isco bottles at LLM1, 2, and 3, ADV intermittently exposed, lowered ADV
31 Jan 96	Cleaned instruments and replaced Hydrolab at LLM1, Replaced Isco bottles at LLM1, 2, and 3
13 Feb 96	Cleaned instruments and replaced Hydrolab at LLM1, Replaced Isco bottles at LLM1, 2, and 3
26 Feb 96	Cleaned instruments and replaced Hydrolab at LLM1, Replaced Isco bottles at LLM1, 2, and 3, Replaced batteries and voltage regulators at LLM1, 2, and 3
4 Mar 96	Cleaned instruments and replaced Hydrolab at LLM1, Replaced Isco bottles at LLM1, 2, and 3
15 Mar 96	Cleaned instruments and replaced Hydrolab at LLM1, Replaced Isco bottles at LLM1, 2, and 3
25 Mar 96	Cleaned instruments and replaced Hydrolab at LLM1, Replaced Isco bottles at LLM1, 2, and 3
5 Apr 96	Cleaned instruments and replaced Hydrolab at LLM1, Replaced Isco bottles at LLM1, 2, and 3
16 Apr 96	Cleaned instruments and replaced Hydrolab at LLM1, Replaced Isco bottles at LLM1, 2, and 3
26 Apr 96	Cleaned instruments and replaced Hydrolab at LLM1, Replaced Isco bottles at LLM1, 2, and 3
6 May 96	Cleaned instruments and replaced Hydrolab at LLM1, Replaced Isco bottles at LLM1, 2, and 3
16 May 96	Cleaned instruments and replaced Hydrolab at LLM1, Replaced Isco bottles at LLM1, 2, and 3
24 May 96	Cleaned instruments and replaced Hydrolab at LLM1, Replaced Isco bottles at LLM1, 2, and 3, Removed fluorometer at LLM 1 to replace lens and cable, Removed ADV at LLM1 for servicing
4 Jun 96	Cleaned instruments and replaced Hydrolab at LLM1, Replaced Isco bottles at LLM1, Installed fluorometer and ADV at LLM1, Removed Isco samplers from LLM2 and LLM3, Installed new data-collection station at LLM2a
14 Jun 96	Cleaned instruments and replaced Hydrolab at LLM1, Cleaned instruments and downloaded data at LLM2a, Replaced Isco bottles at LLM1 and 2a
21 Jun 96	Cleaned instruments and replaced Hydrolab at LLM1, Cleaned instruments and downloaded data at LLM2a, Replaced Isco bottles at LLM1 and 2a

Table 3. Chronology of events for lower Laguna Madre environmental monitoring.

Date (1994-1997)	Event
28 Jun 96	Cleaned instruments and replaced Hydrolab at LLM1, Cleaned instruments and downloaded data at LLM2a, Replaced Isco bottles at LLM1 and 2a
10 Jul 96	Cleaned instruments and replaced Hydrolab at LLM1, Cleaned instruments and downloaded data at LLM2a, Replaced Isco bottles at LLM1 and 2a
22 Jul 96	Cleaned instruments and replaced Hydrolab at LLM1, Cleaned instruments and downloaded data at LLM2a, Replaced Isco bottles at LLM1 and 2a
1 Aug 96	Cleaned instruments and replaced Hydrolab at LLM1, Cleaned instruments and downloaded data at LLM2a, Replaced Isco bottles at LLM1 and 2a , Reset datalogger at LLM2a, Moved instruments to south side of platform at LLM2a
13 Aug 96	Cleaned instruments and replaced Hydrolab at LLM1, Cleaned instruments and downloaded data at LLM2a, Replaced Isco bottles at LLM1 and 2a, Moved terrestrial PAR sensor LLM2a, Reset datalogger at LLM2a
21 Aug 96	Attempted to service of LLM1 but aborted due to sea conditions, LLM2a datalogger failed due to possible lightening strike, LLM2a data-collection system returned to CBI for repair
28 Aug 96	Cleaned instruments and replaced Hydrolab at LLM1, Cleaned instruments and downloaded data at LLM2a, Replaced Isco bottles at LLM1 and 2a LLM2a datalogger re-deployed with radio/TNC for checking status of system
3 Sep 96	Cleaned instruments and replaced Hydrolab at LLM1, Cleaned instruments and downloaded data at LLM2a, Replaced Isco bottles at LLM1 and 2a
13 Sep 96	Cleaned instruments and replaced Hydrolab at LLM1, Cleaned instruments and downloaded data at LLM2a, Replaced Isco bottles at LLM1 and LLM2a
25 Sep 96	Cleaned instruments and replaced Hydrolab at LLM1, Cleaned instruments and downloaded data at LLM2a, Replaced Isco bottles at LLM1 and LLM2a
1 Oct 96	Cleaned instruments and replaced Hydrolab at LLM1, Cleaned instruments and downloaded data at LLM2a, Replaced Isco bottles at LLM1 and LLM2a
21 Oct 96	Cleaned instruments and replaced Hydrolab at LLM1, Cleaned instruments and downloaded data at LLM2a, Replaced Isco bottles at LLM1 and LLM2a
30 Oct 96	Cleaned instruments and replaced Hydrolab at LLM1, Cleaned instruments and downloaded data at LLM2a, Replaced Isco bottles at LLM1 and LLM2a Deployed Li-cor datalogger at LLM2a
8 Nov 96	Cleaned instruments and replaced Hydrolab at LLM1, Replaced ADV anode at LLM1, Cleaned instruments and downloaded data at LLM2a, Replaced Isco bottles at LLM1 and LLM2a, Replaced battery boxes at LLM2a
20 Nov 96	Cleaned instruments and replaced Hydrolab at LLM1, Cleaned instruments and downloaded data at LLM2a, Replaced Isco bottles at LLM1 and LLM2a
26 Nov 96	Cleaned instruments and replaced Hydrolab at LLM1, Cleaned instruments and downloaded data at LLM2a, Replaced Isco bottles at LLM1 and LLM2a
9 Dec 96	Cleaned instruments and replaced Hydrolab at LLM1, Cleaned instruments and downloaded data at LLM2a, Replaced Isco bottles at LLM1 and LLM2a
20 Dec 96	Cleaned instruments and replaced Hydrolab at LLM1, Changed out sub-par cable but left same PAR, Cleaned instruments and downloaded data at LLM2a, Replaced Isco bottles at LLM1 and LLM2a
3 Jan 97	Cleaned instruments and replaced Hydrolab at LLM1, Cleaned instruments and downloaded data at LLM2a, Replaced Isco bottles at LLM1 and LLM2a
10 Jan 97	Cleaned instruments and replaced Hydrolab at LLM1, ADV probe is bent, Cleaned instruments and downloaded data at LLM2a, Replaced anode on ADV at LLM2a, Replaced the cable for the underwater PAR sensor at LLM2a, Replaced Isco bottles at LLM1 and LLM2a
	Cleaned instruments and replaced Hydrolab at LLM1, ADV probe changed from 1119 to 1015, Cleaned instruments and downloaded data at LLM2a, Power loss on 13 Jan 97, Isco was off

Table 2. Chronology of events for lower Laguna Madre environmental monitoring.

Date (1994-1997)	Event
22 Jan 97	Cleaned instruments and downloaded data at LLM2a, Power loss on 13 Jan 97 Isco was off when arrived at station, Station went down on day 17 Jan 97, Replaced Isco bottles at LLM1 and LLM2a
3 Feb 97	Cleaned instruments and replaced Hydrolab at LLM1, Changed out large and small anodes on ADV, Cleaned instruments and downloaded data at LLM2a, Replaced Isco bottles at LLM1 and LLM2a
14 Feb 97	Cleaned instruments and Hydrolab at LLM1, Cleaned instruments and downloaded data at LLM2a, Changed Licor logger, underwater cable, and underwater sensor, Replaced Isco bottles at LLM1 and LLM2a
25 Feb 97	Cleaned instruments and replaced Hydrolab at LLM1, Cleaned instruments and downloaded data at LLM2a, Replaced Isco bottles at LLM1 and LLM2a
28 Feb 97	Installed LLM3 at Port Mansfield
6 Mar 97	Cleaned instruments at LLM3, Installed tower with wind generator, Isco cable, and Hydrolab
7 Mar 97	Cleaned instruments and replaced Hydrolab at LLM1, Cleaned instruments and downloaded data at LLM2a, Replaced Isco bottles at LLM1 and LLM2a
18 Mar 97	Cleaned instruments at LLM3, Field cleaned Hydrolab, Installed antenna, ADV and other analog instruments not working
19 Mar 97	Cleaned instruments and replaced Hydrolab at LLM1, Cleaned instruments at LLM2a, Replaced Isco bottles at LLM1 and LLM2a
27 Mar 97	Cleaned instruments and replaced Hydrolab at LLM1, Replaced ADV probe at LLM1, Cleaned instruments and downloaded data at LLM2a, Datalogger at LLM2a locked up and brought back to CBI for repair Replaced Isco bottles at LLM1 and LLM2a Collected water samples for UTMSI
8 Apr 97	Cleaned instruments and replaced Hydrolab at LLM1, Cleaned instruments at LLM2a, Replaced Isco bottles at LLM1 and LLM2a
18 Apr 97	Cleaned instruments and replaced Hydrolab at LLM1, Cleaned instruments at LLM2a, Kila reinstalled, Hydrolab was not replaced on LLM2a, No water samples collected so Isco bottles at LLM1 and LLM2a were not replaced
28 Apr 97	Cleaned instruments and replaced Hydrolab at LLM1, Cleaned instruments at LLM2a, Bad Isco cable removed but Isco was wired to take samples, ADV probe was replaced on LLM2a and LLM3, Cleaned instruments on LLM3, Replaced Isco bottles at LLM1, LLM2a, and LLM3
8 May 97	No service to LLM1 due to rough waters, Cleaned instruments at LLM2a, Isco cable reinstalled at LLM2a, Cleaned instruments at LLM3, Replaced Isco bottles at LLM2a and LLM3

JULIAN DATE CALENDAR

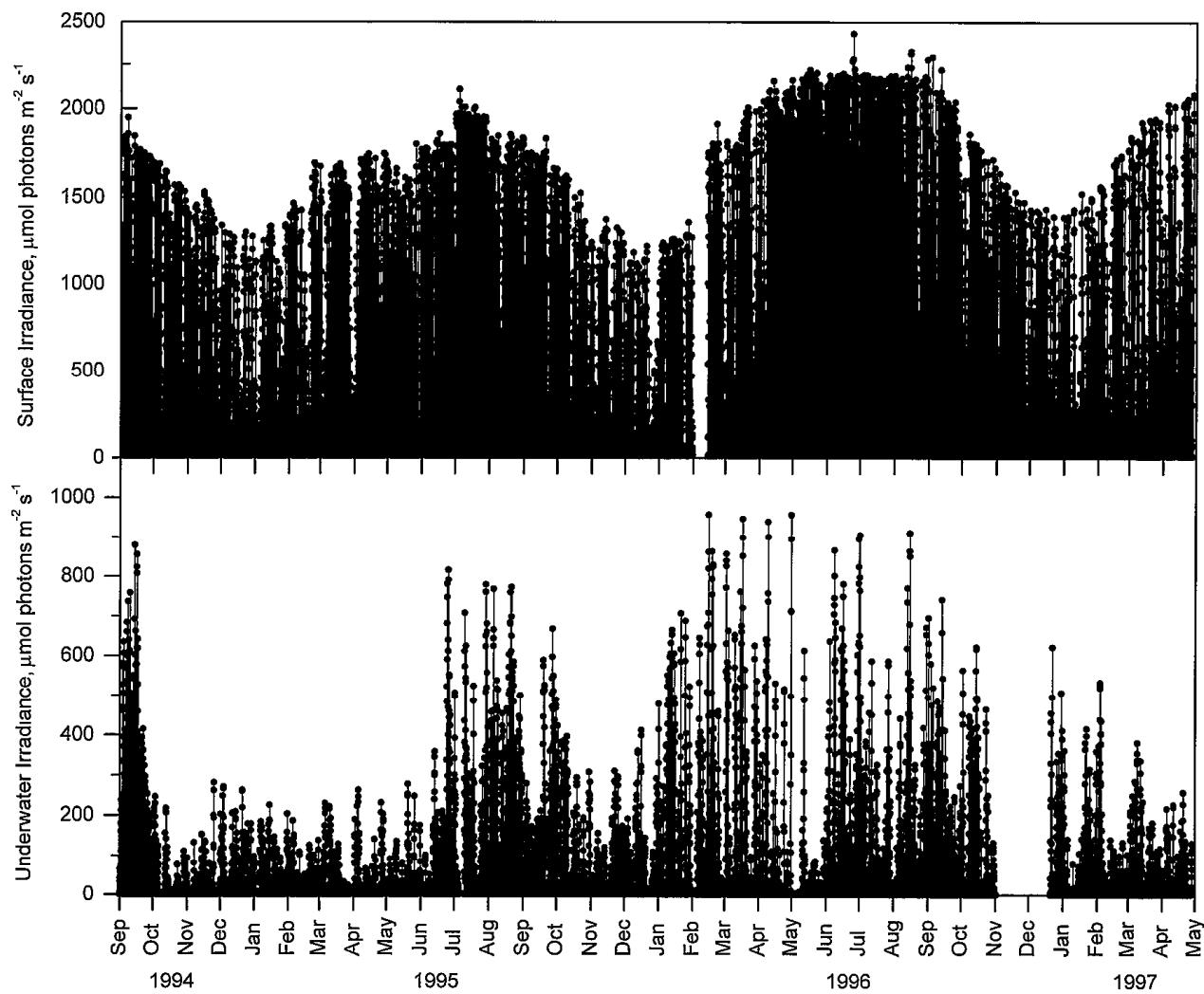
(PERPETUAL)

Day	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Day
1	001	032	060	091	121	152	182	213	244	274	305	335	1
2	002	033	061	092	122	153	183	214	245	275	306	336	2
3	003	034	062	093	123	154	184	215	246	276	307	337	3
4	004	035	063	094	124	155	185	216	247	277	308	338	4
5	005	036	064	095	125	156	186	217	248	278	309	339	5
6	006	037	065	096	126	157	187	218	249	279	310	340	6
7	007	038	066	097	127	158	188	219	250	280	311	341	7
8	008	039	067	098	128	159	189	220	251	281	312	342	8
9	009	040	068	099	129	160	190	221	252	282	313	343	9
10	010	041	069	100	130	161	191	222	253	283	314	344	10
11	011	042	070	101	131	162	192	223	254	284	315	345	11
12	012	043	071	102	132	163	193	224	255	285	316	346	12
13	013	044	072	103	133	164	194	225	256	286	317	347	13
14	014	045	073	104	134	165	195	226	257	287	318	348	14
15	015	046	074	105	135	166	196	227	258	288	319	349	15
16	016	047	075	106	136	167	197	228	259	289	320	350	16
17	017	048	076	107	137	168	198	229	260	290	321	351	17
18	018	049	077	108	138	169	199	230	261	291	322	352	18
19	019	050	078	109	139	170	200	231	262	292	323	353	19
20	020	051	079	110	140	171	201	232	263	293	324	354	20
21	021	052	080	111	141	172	202	233	264	294	325	355	21
22	022	053	081	112	142	173	203	234	265	295	326	356	22
23	023	054	082	113	143	174	204	235	266	296	327	357	23
24	024	055	083	114	144	175	205	236	267	297	328	358	24
25	025	056	084	115	145	176	206	237	268	298	329	359	25
26	026	057	085	116	146	177	207	238	269	299	330	360	26
27	027	056	086	117	147	178	208	239	270	300	331	361	27
28	028	059	087	118	148	179	209	240	271	301	332	362	28
29	029		088	119	149	180	210	241	272	302	333	363	29
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31	031		090		151		212	243		304		365	31

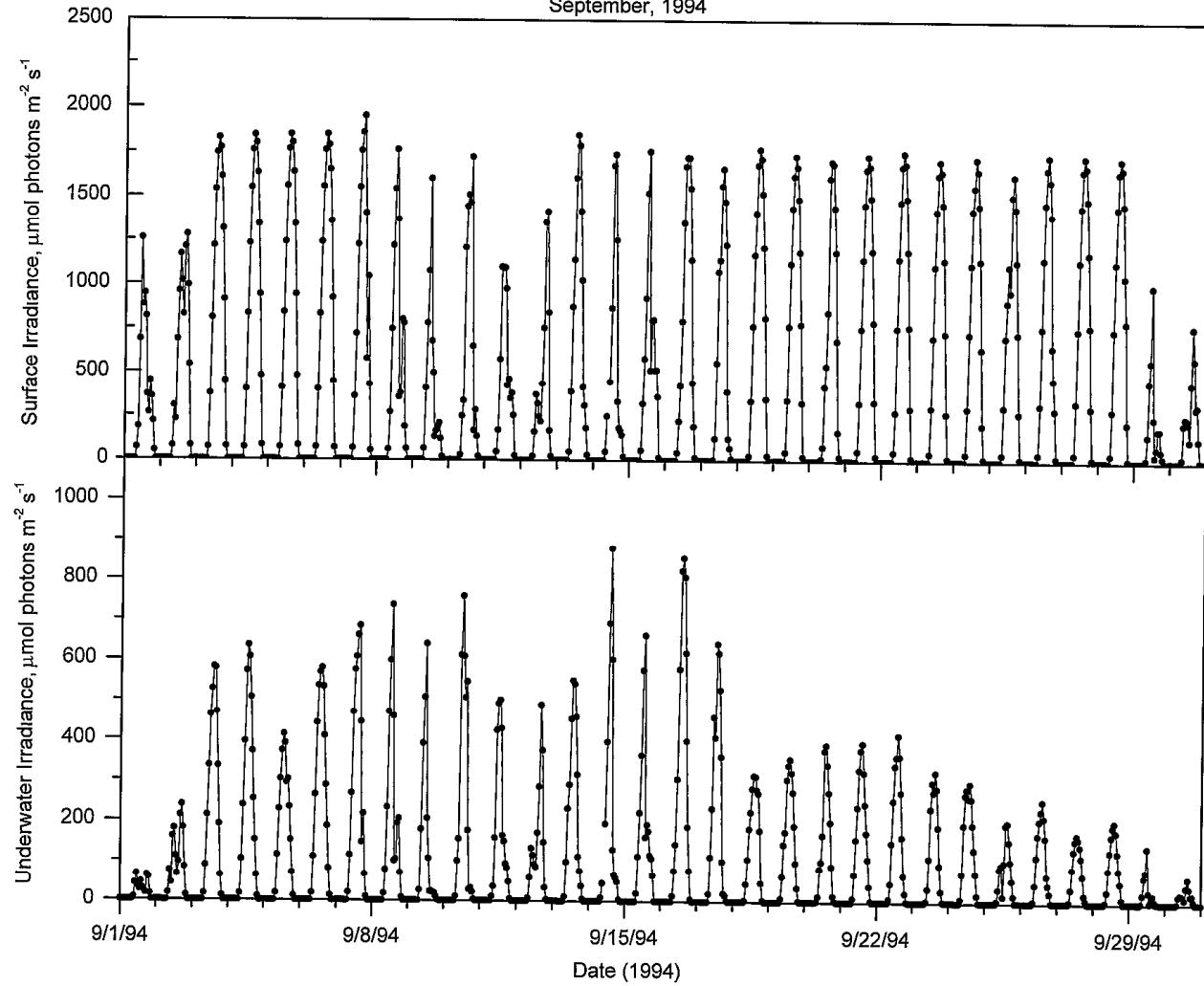
For leap year, add 1 beginning March 1.

Chapter 1: PAR Data

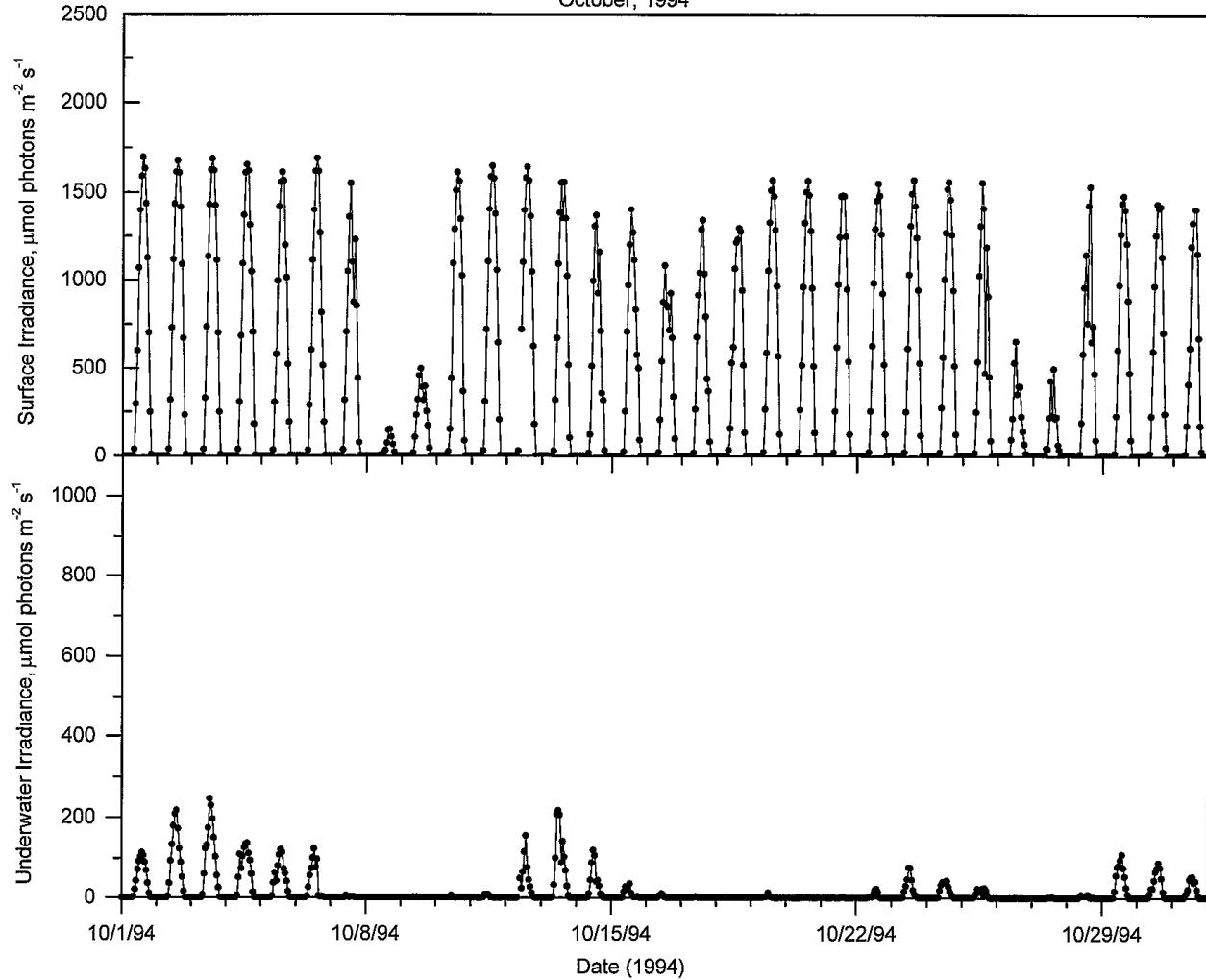
Surface and Underwater Irradiance at LLM 1



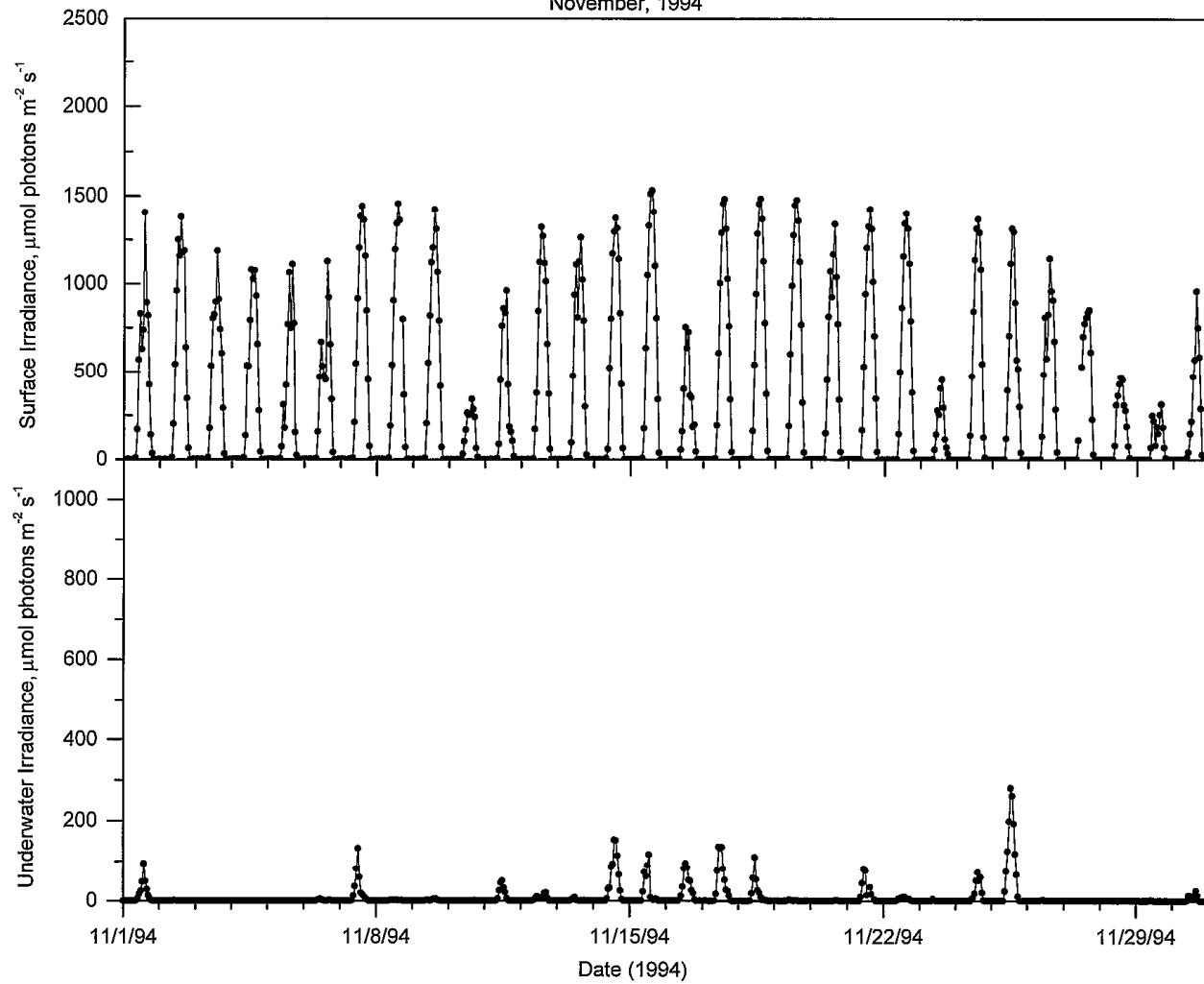
Surface and Underwater Irradiance at LLM 1
September, 1994



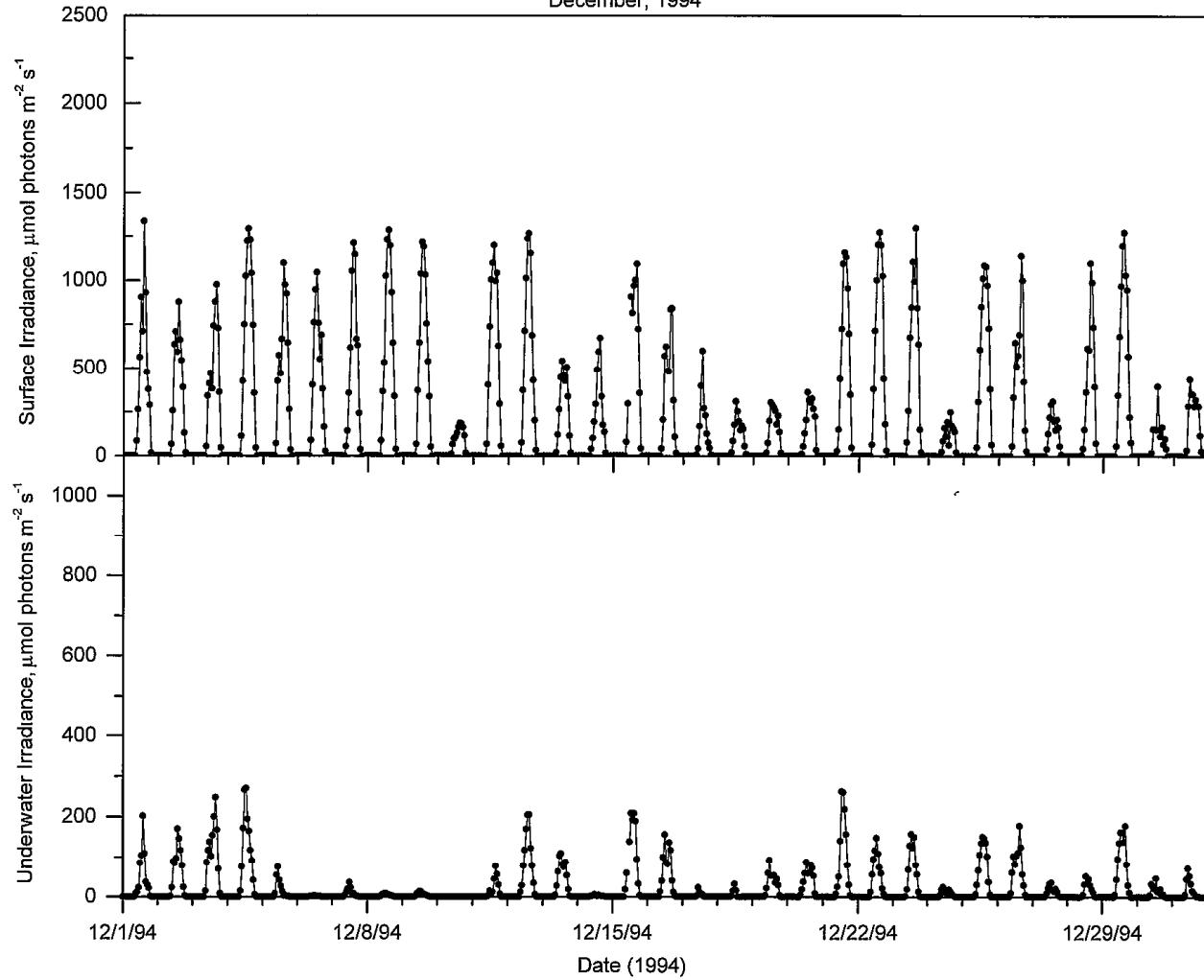
Surface and Underwater Irradiance at LLM 1
October, 1994



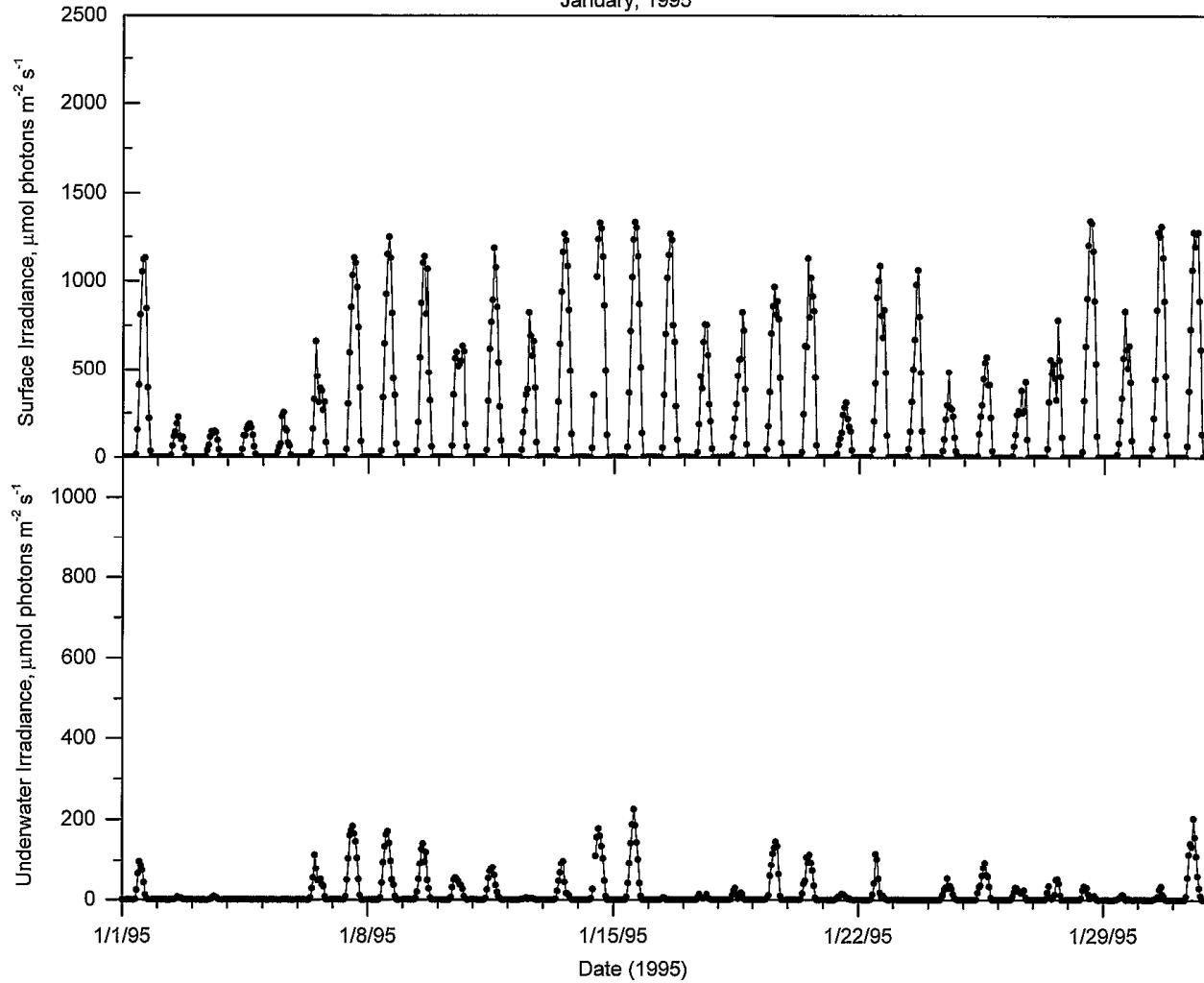
Surface and Underwater Irradiance at LLM 1
November, 1994



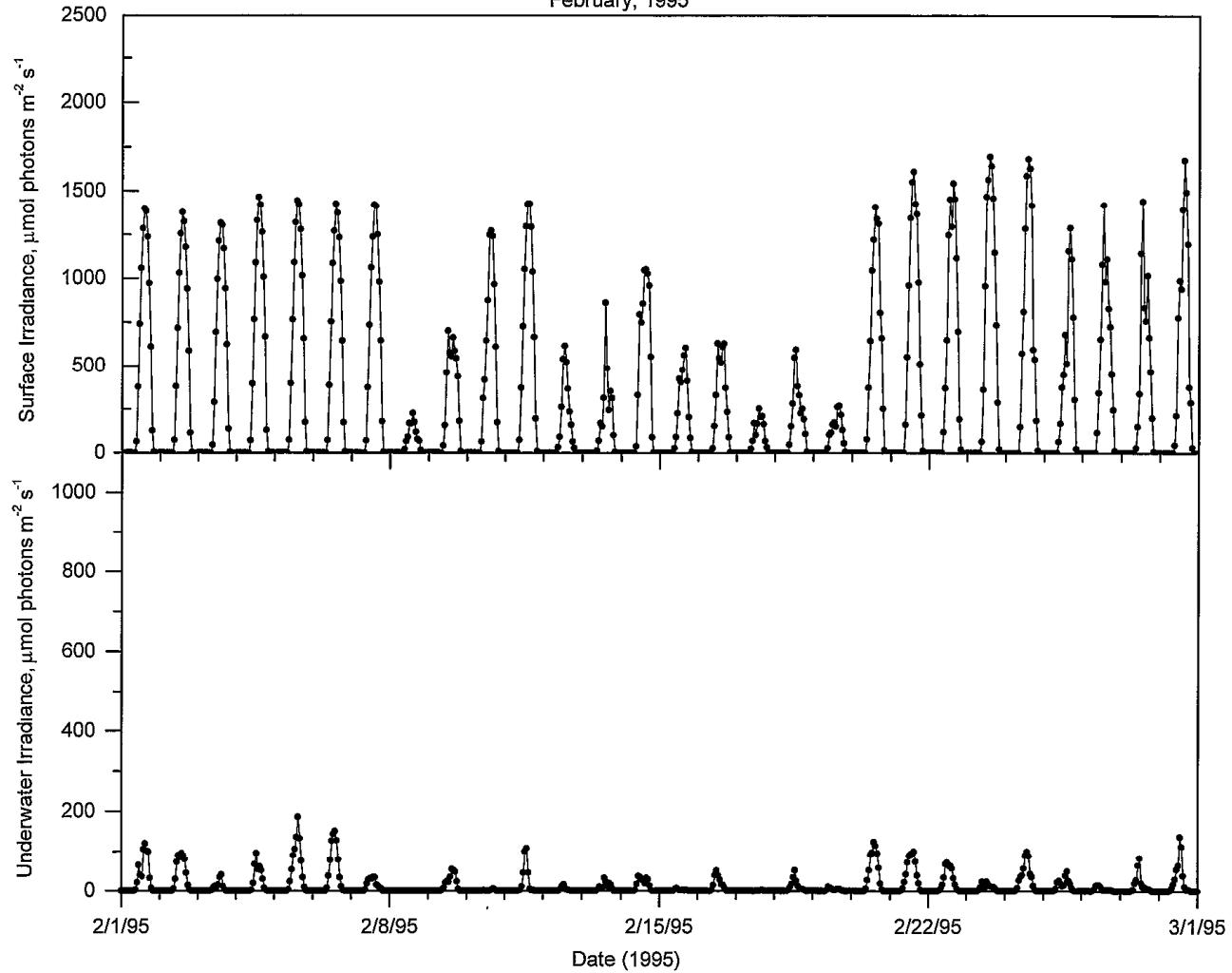
Surface and Underwater Irradiance at LLM 1
December, 1994



Surface and Underwater Irradiance at LLM 1
January, 1995

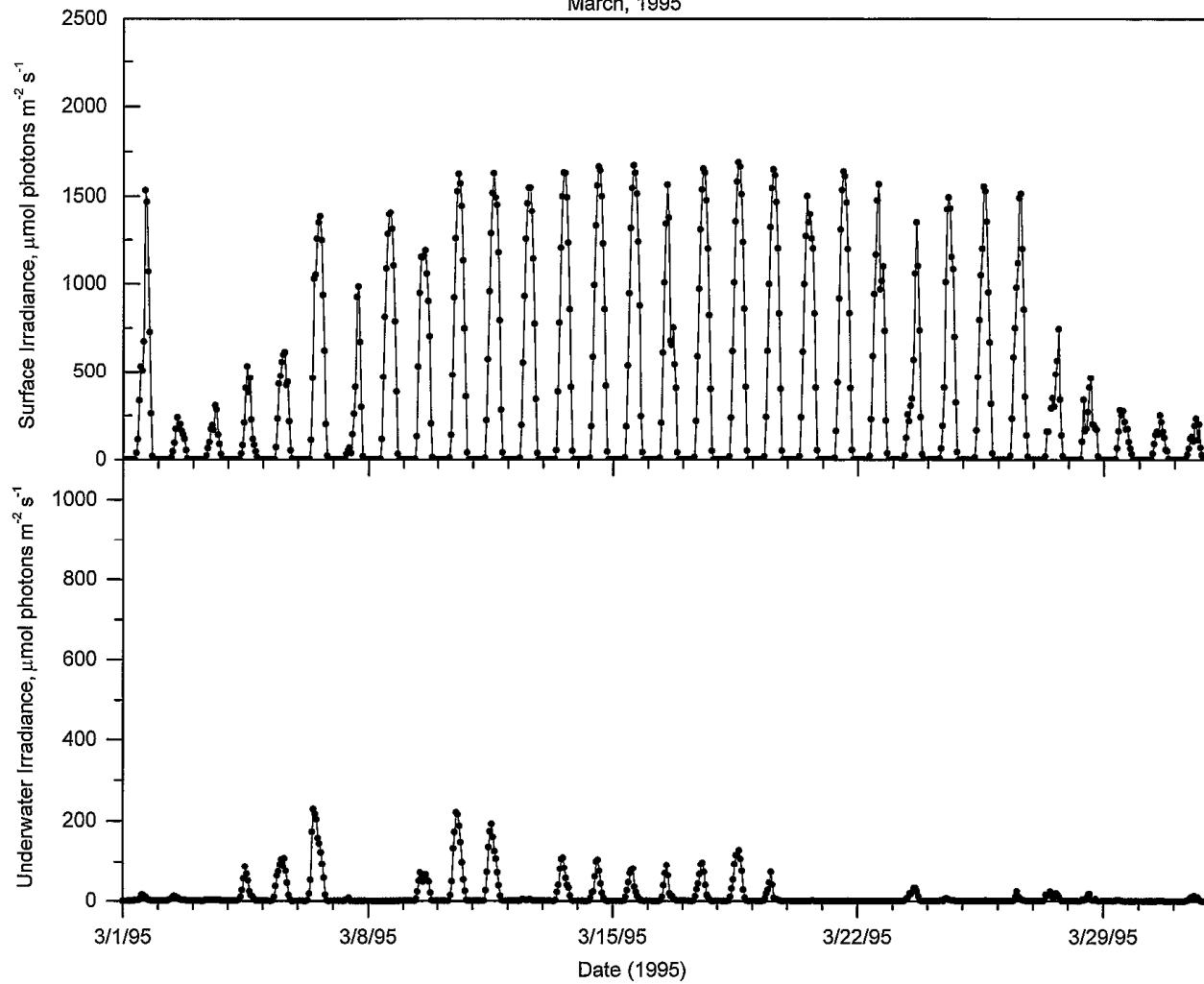


Surface and Underwater Irradiance at LLM 1
February, 1995



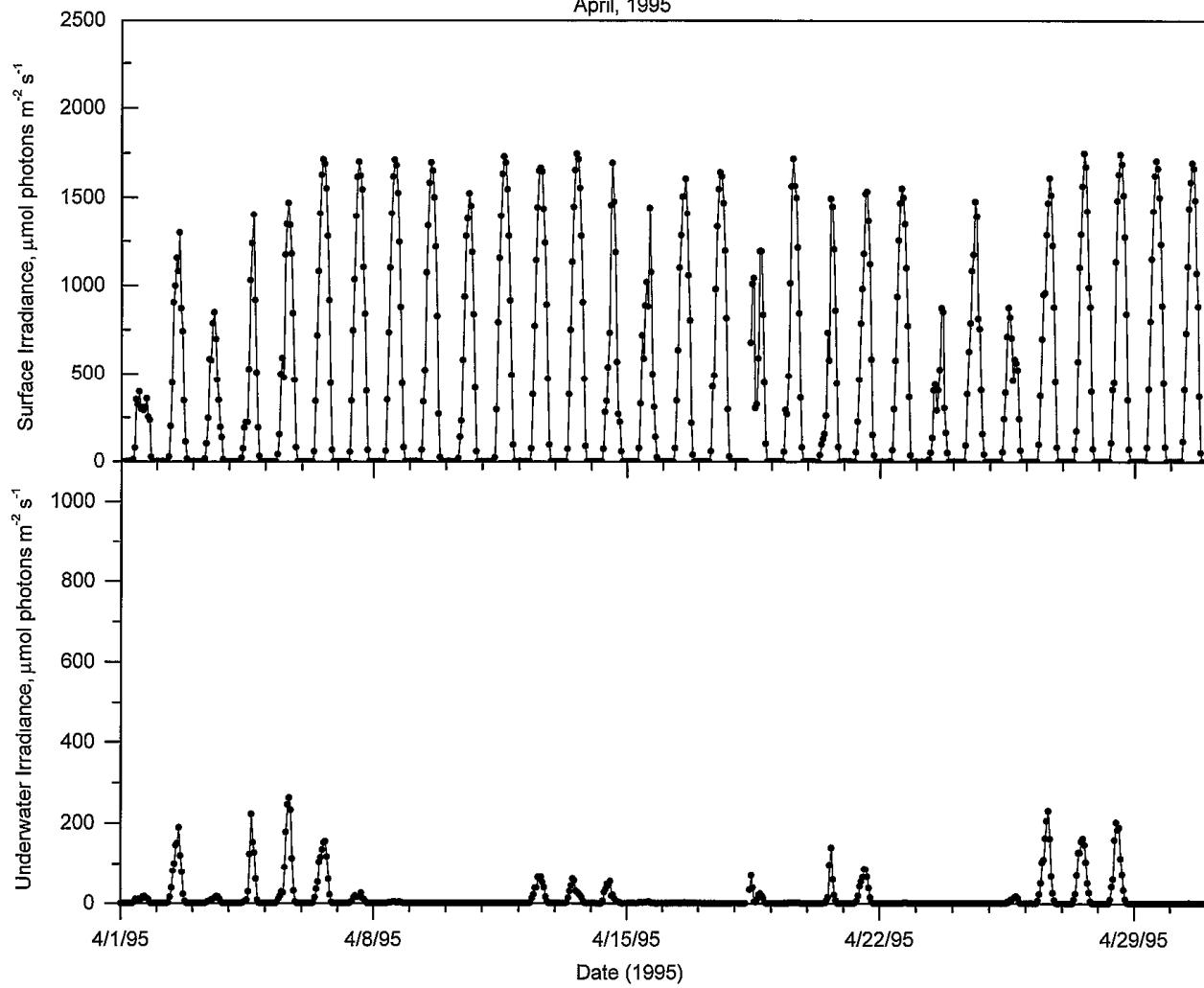
Surface and Underwater Irradiance at LLM 1

March, 1995

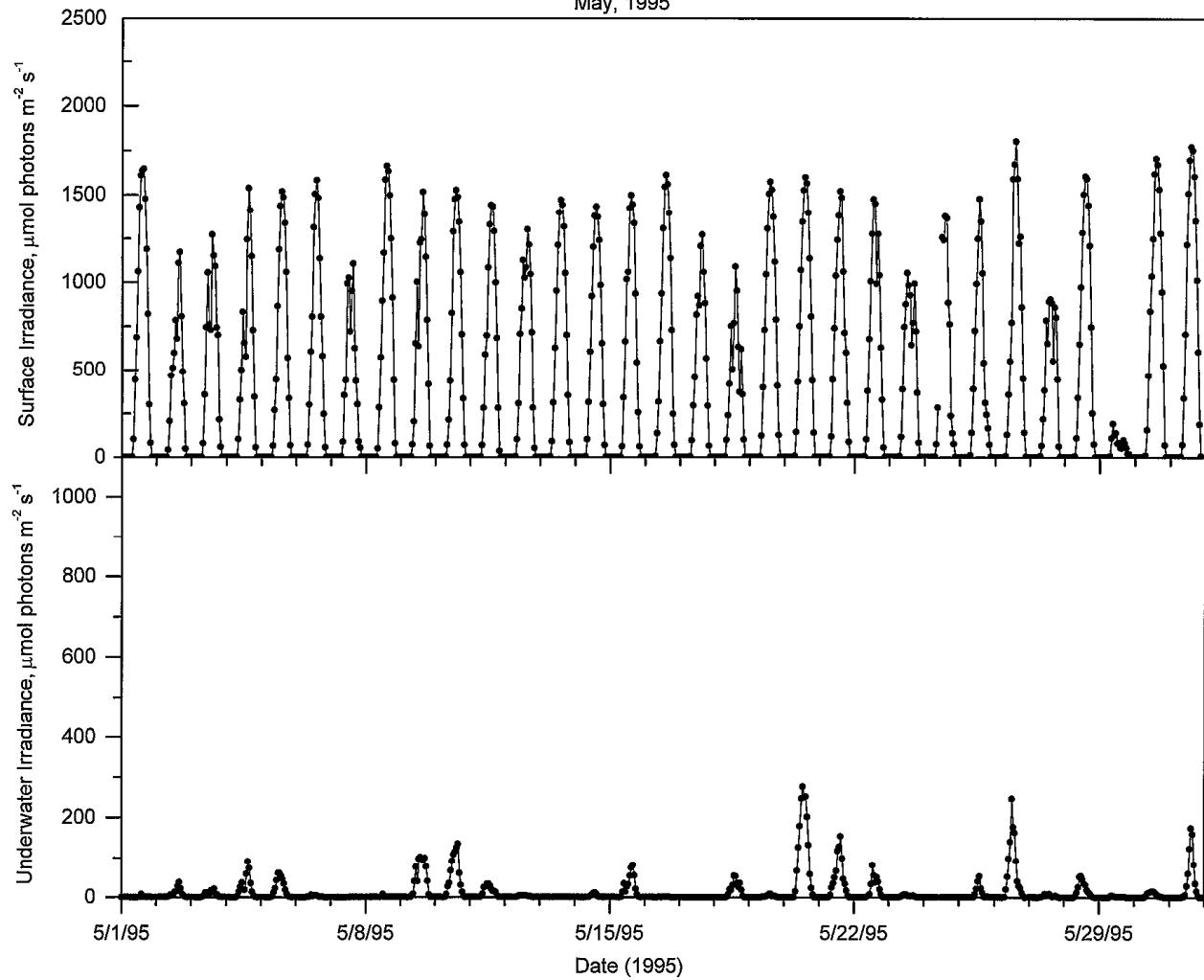


Surface and Underwater Irradiance at LLM 1

April, 1995

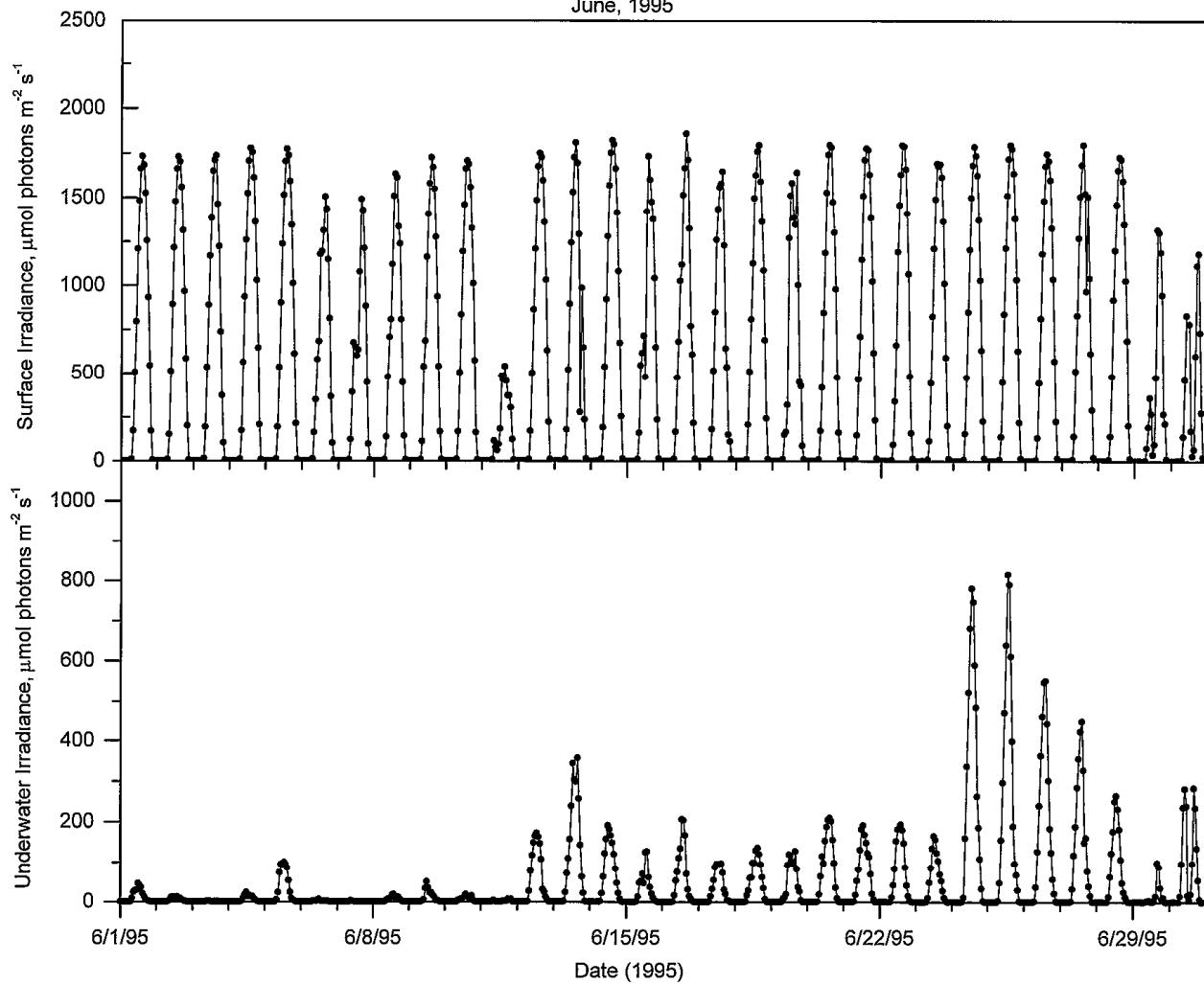


Surface and Underwater Irradiance at LLM 1
May, 1995



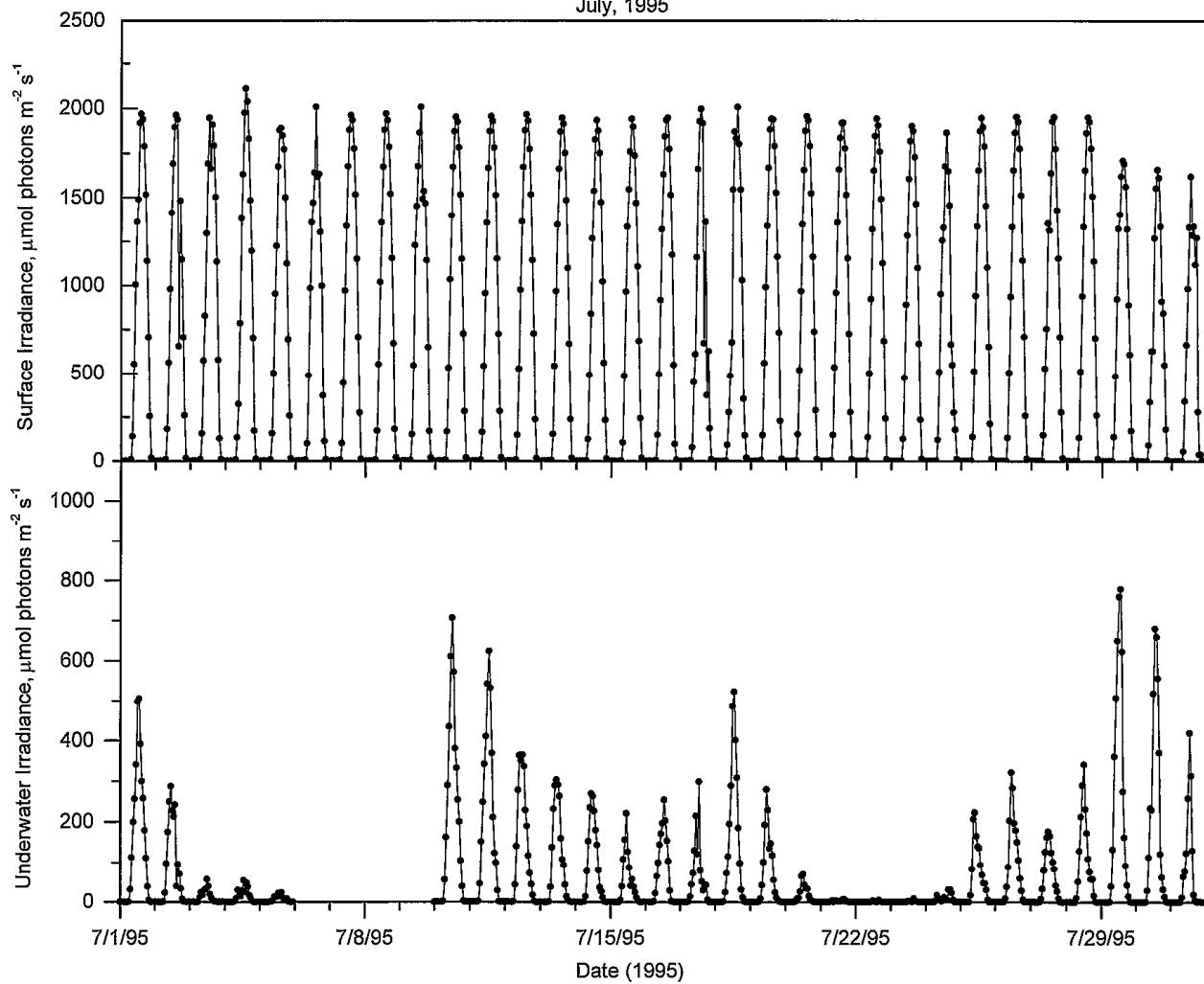
Surface and Underwater Irradiance at LLM 1

June, 1995



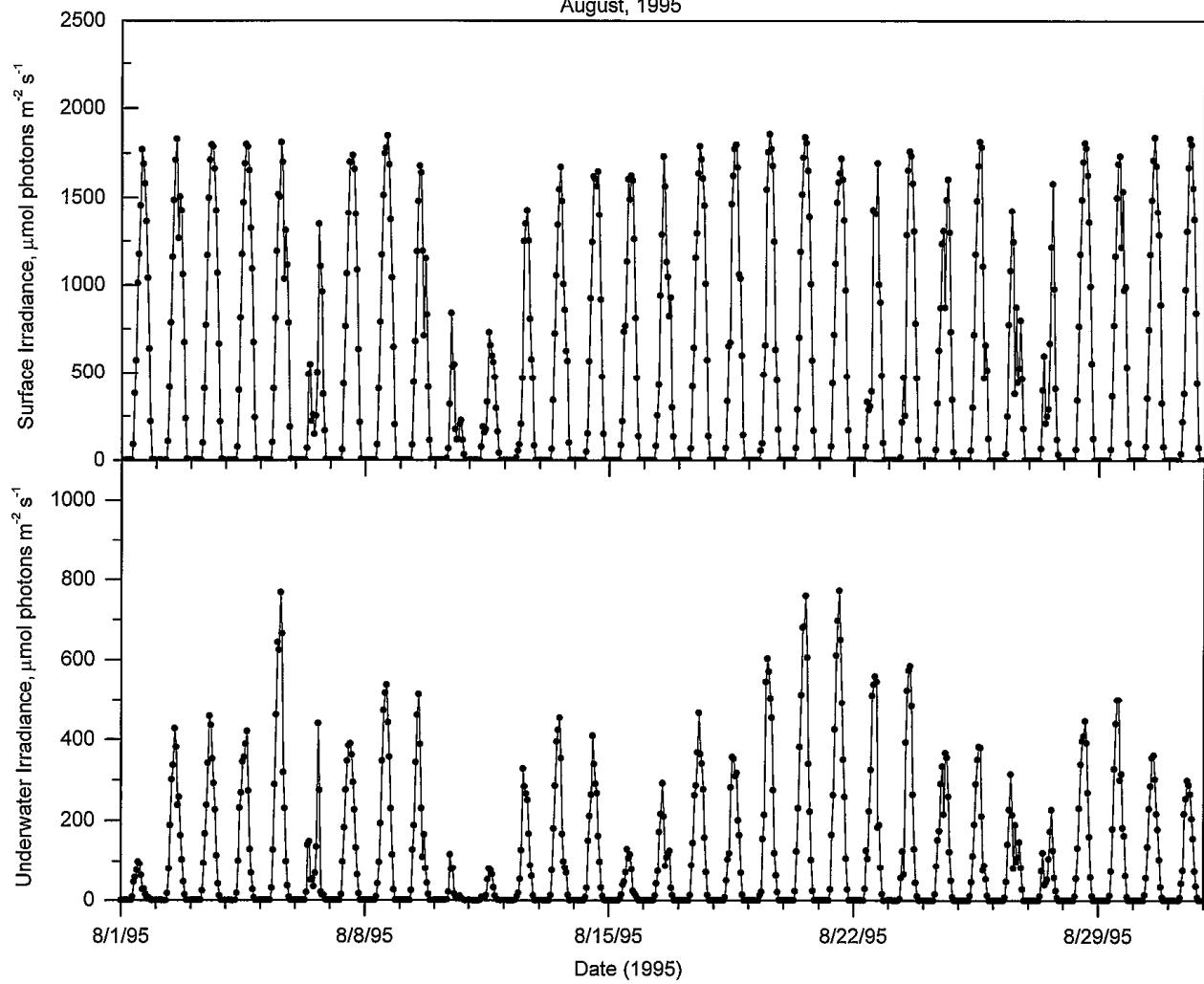
Surface and Underwater Irradiance at LLM 1

July, 1995

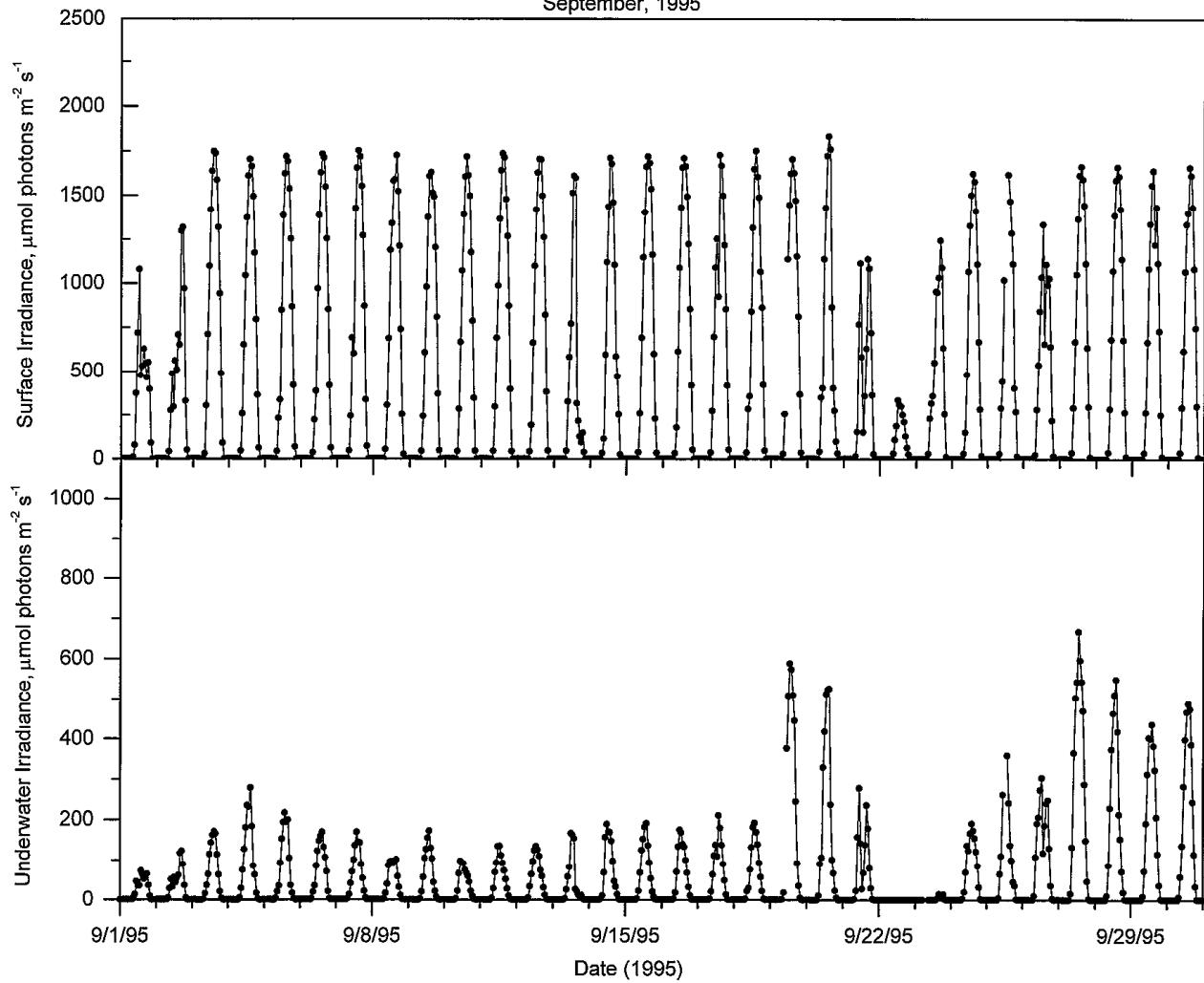


Surface and Underwater Irradiance at LLM 1

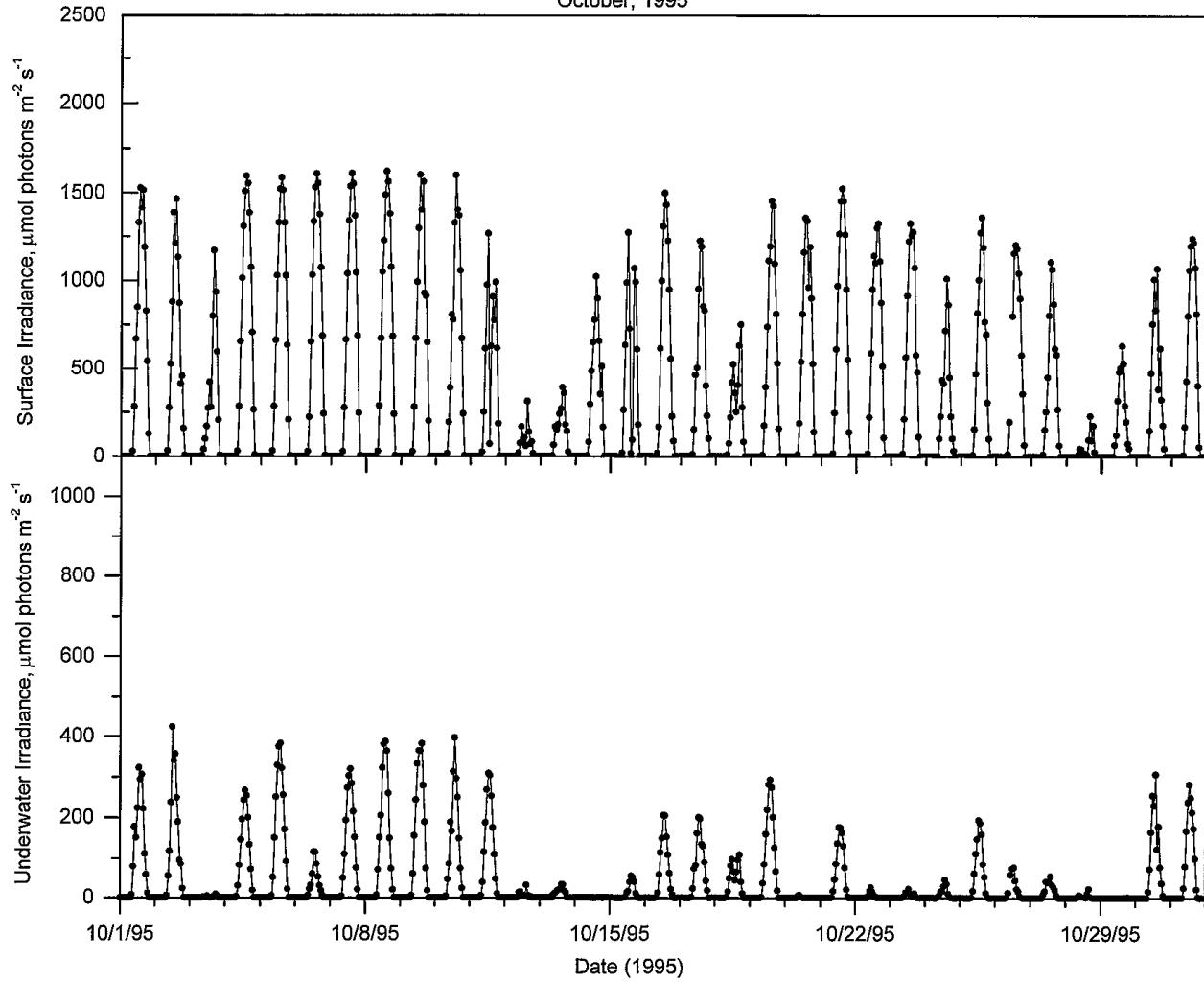
August, 1995



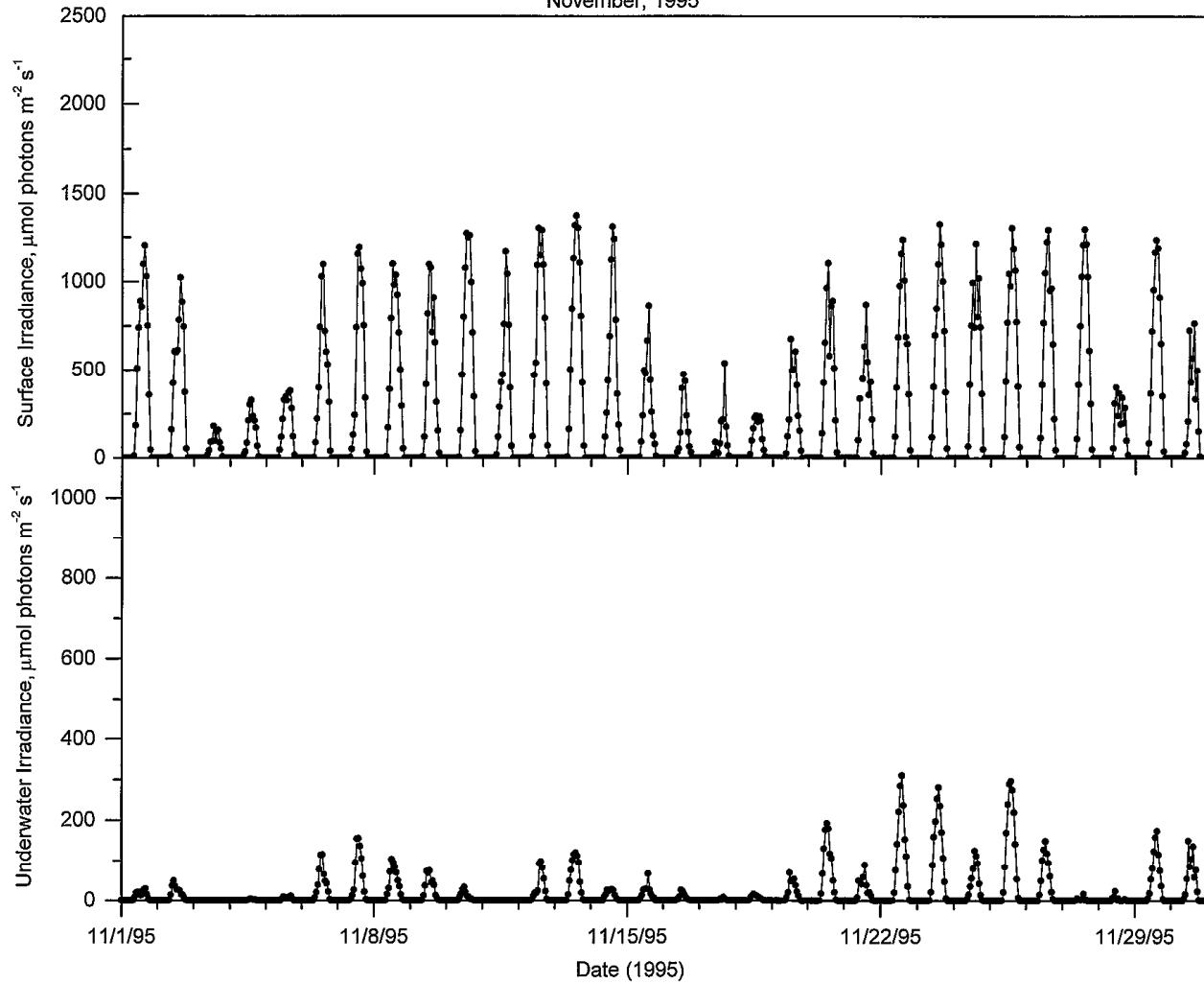
Surface and Underwater Irradiance at LLM 1
September, 1995



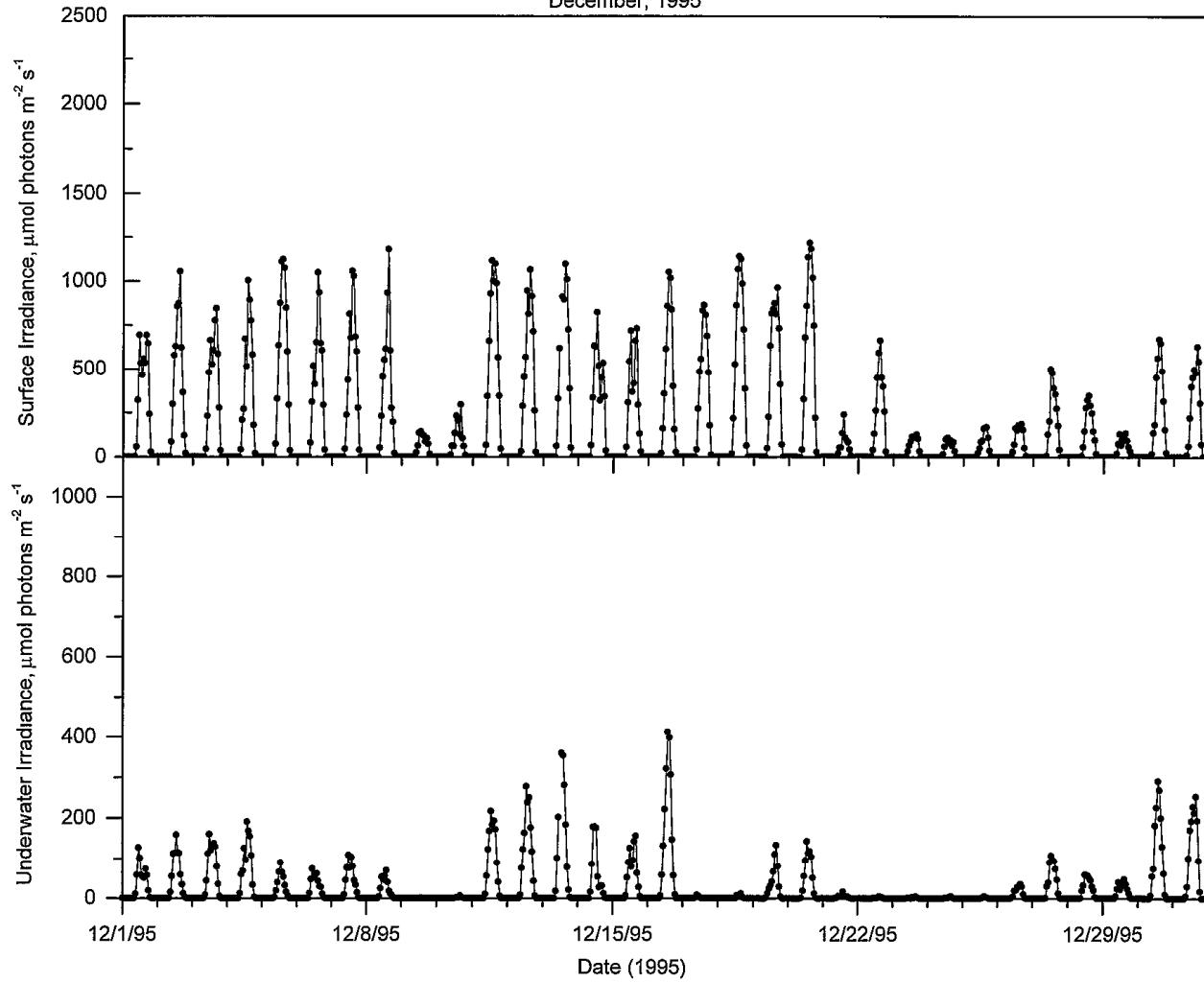
Surface and Underwater Irradiance at LLM 1
October, 1995



Surface and Underwater Irradiance at LLM 1
November, 1995

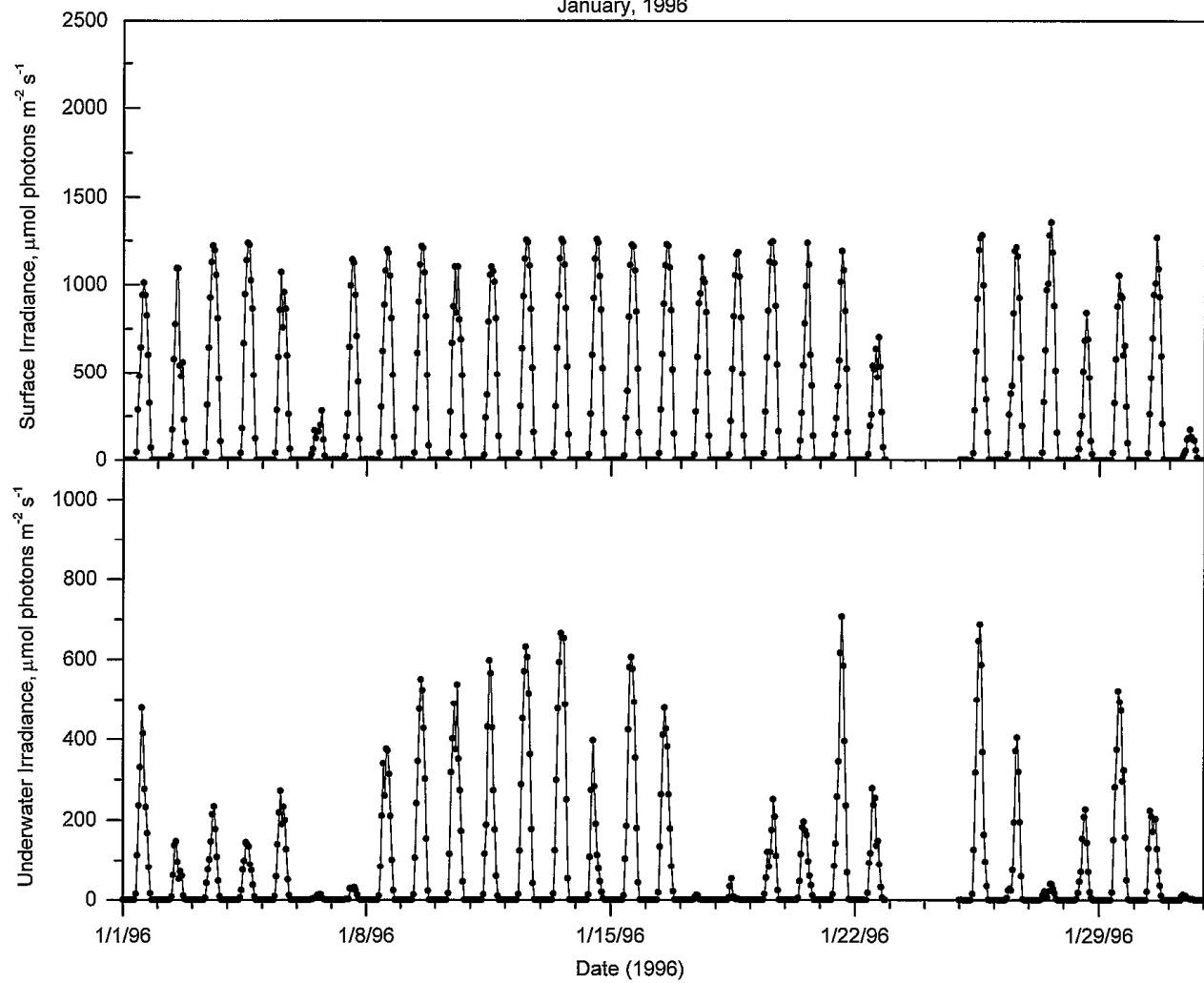


Surface and Underwater Irradiance at LLM 1
December, 1995

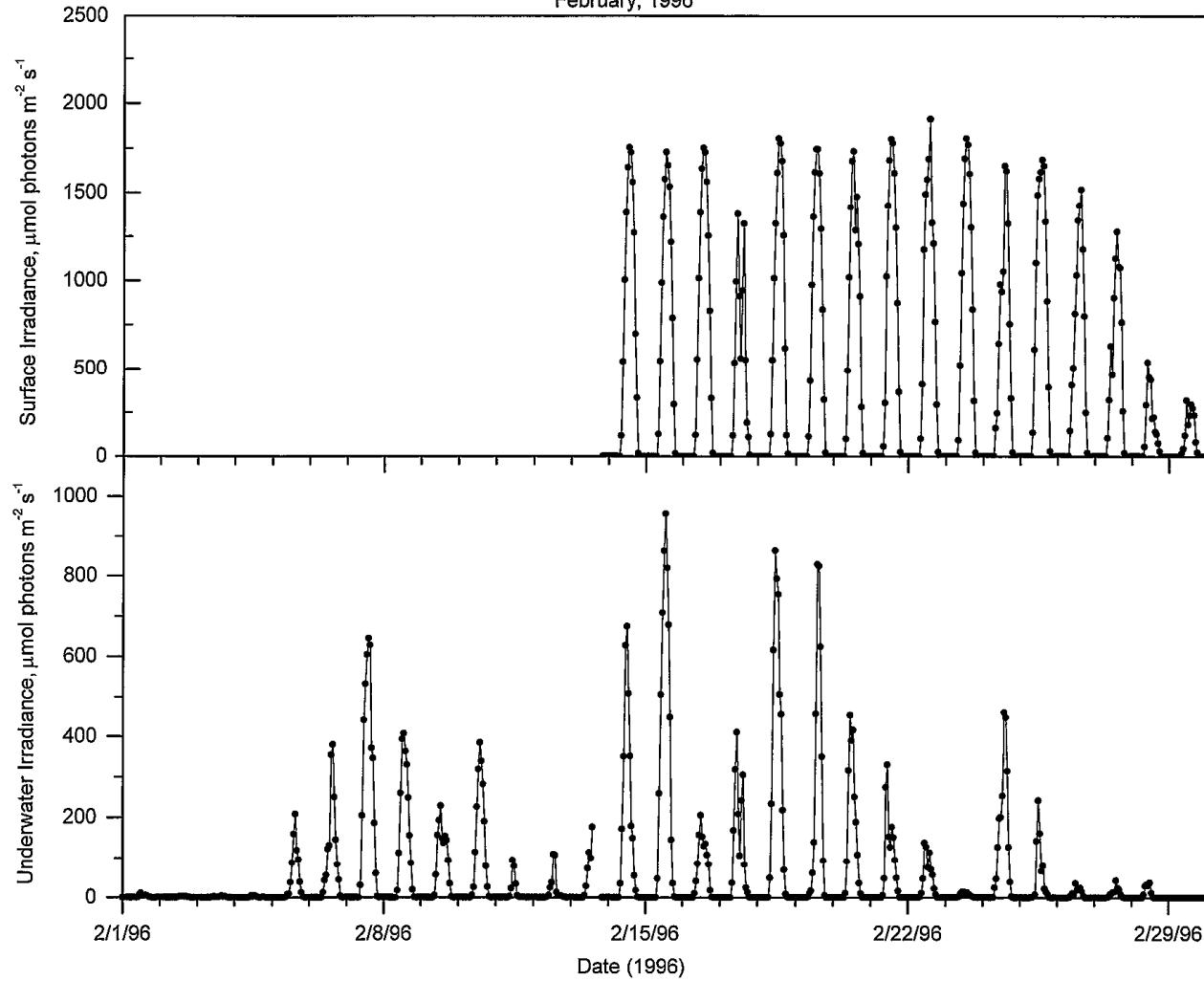


Surface and Underwater Irradiance at LLM 1

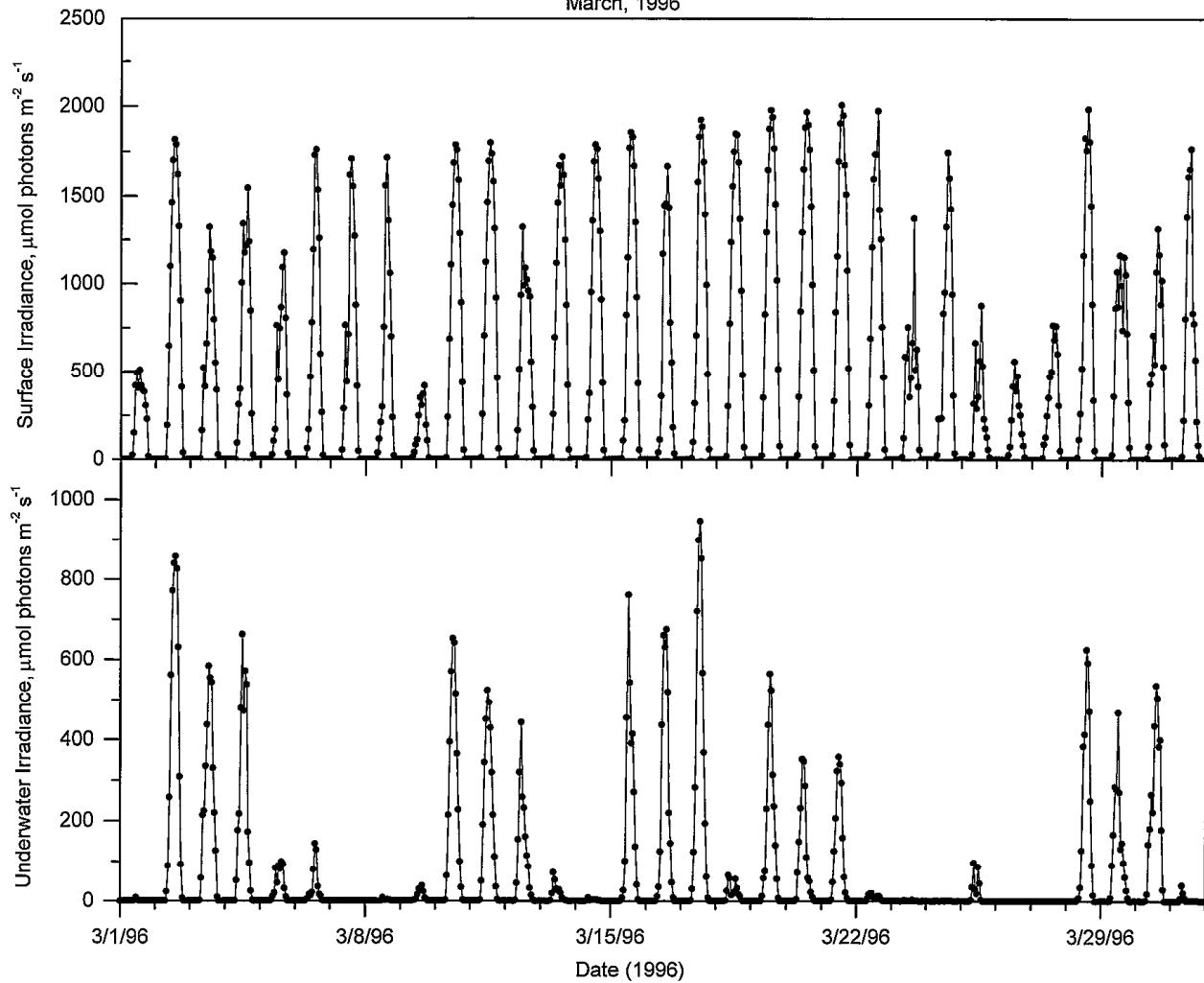
January, 1996



Surface and Underwater Irradiance at LLM 1
February, 1996

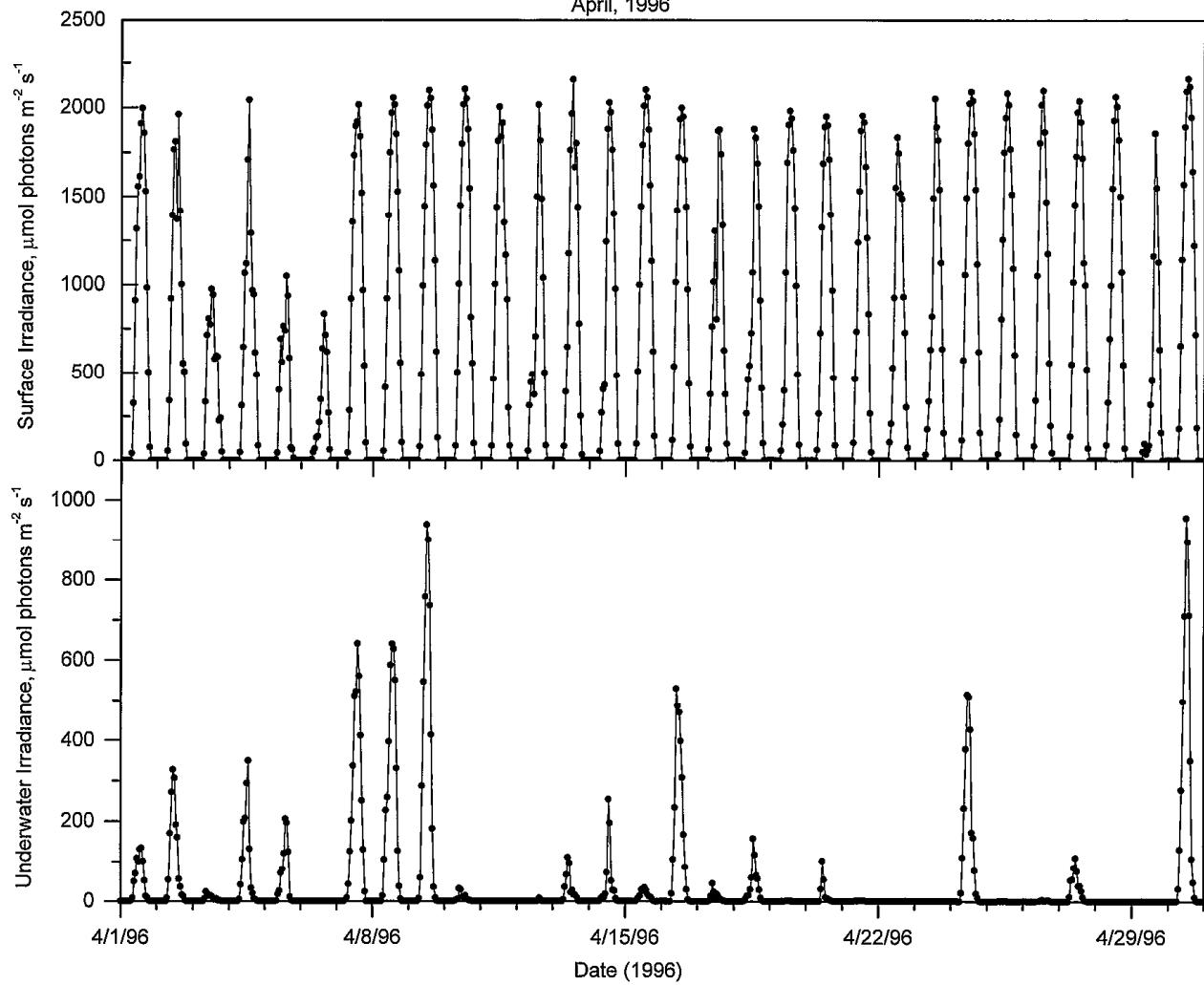


Surface and Underwater Irradiance at LLM 1
March, 1996



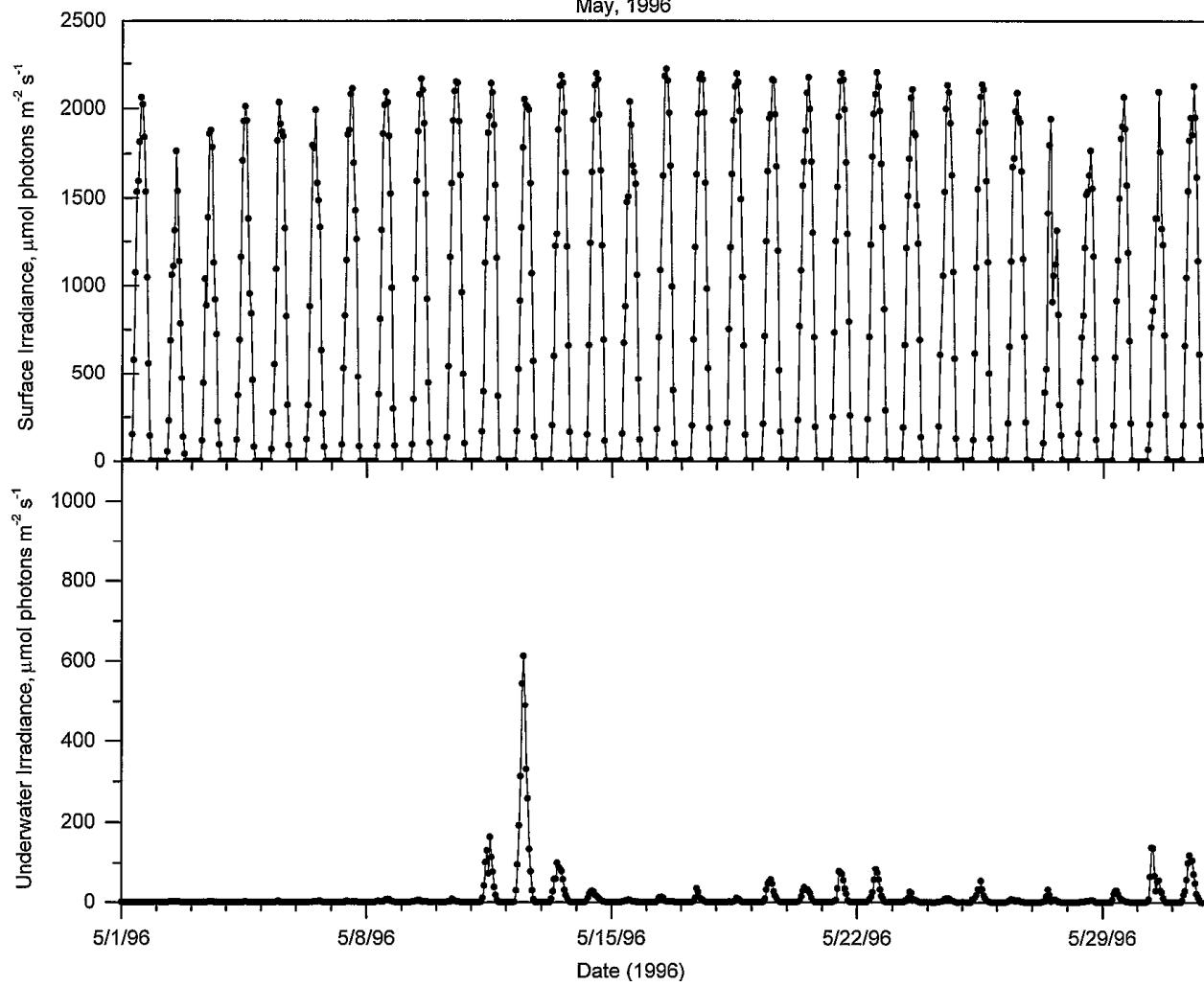
Surface and Underwater Irradiance at LLM 1

April, 1996



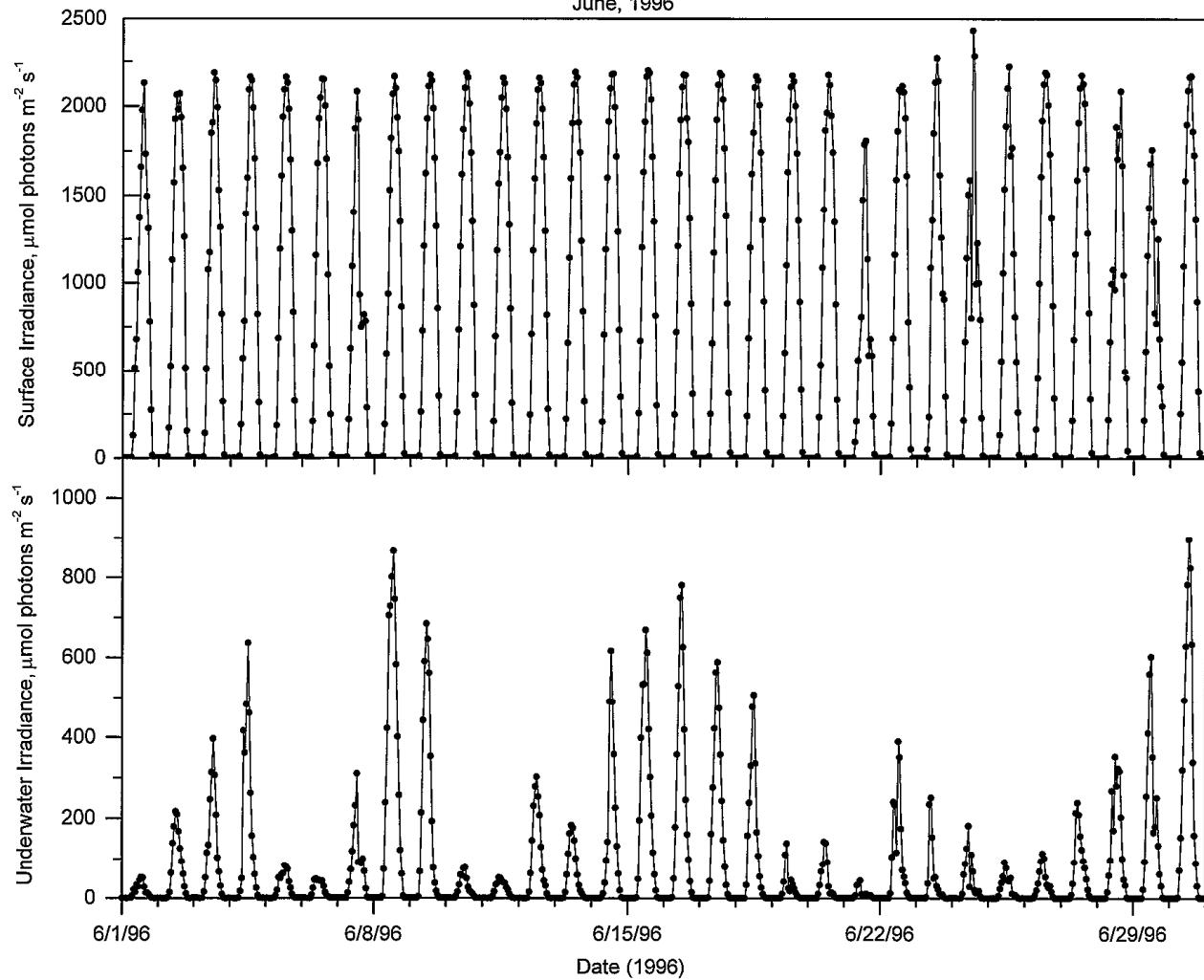
Surface and Underwater Irradiance at LLM 1

May, 1996

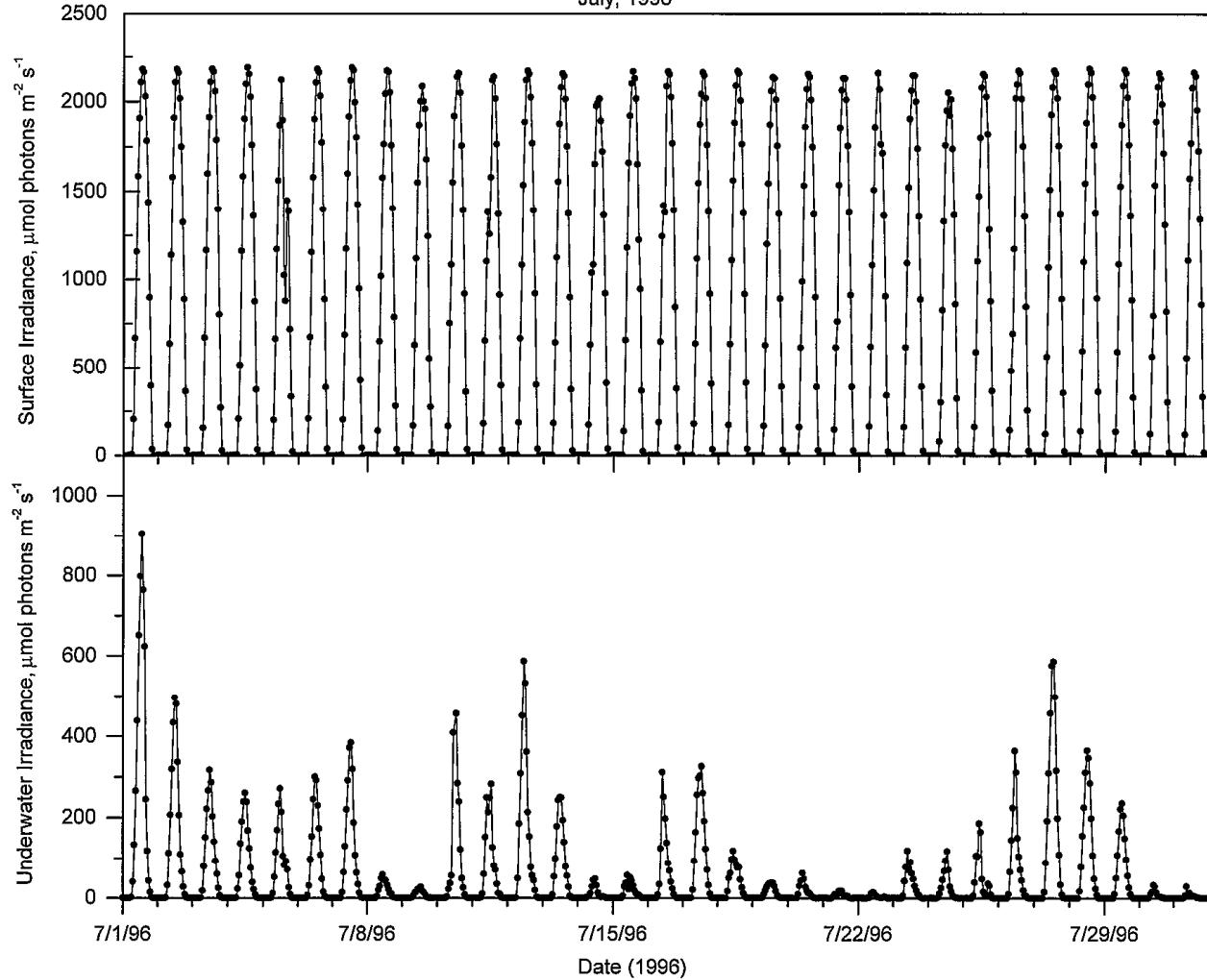


Surface and Underwater Irradiance at LLM 1

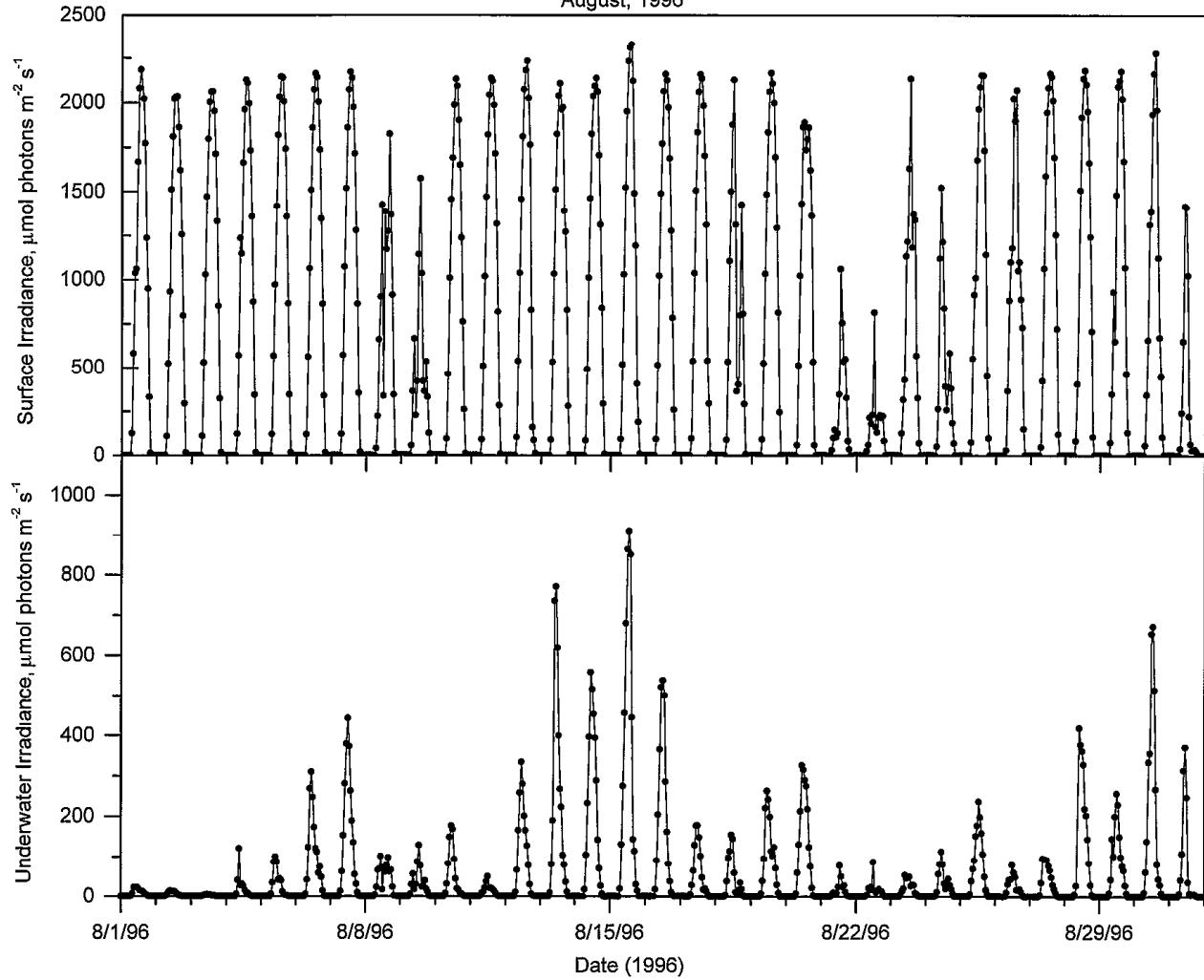
June, 1996



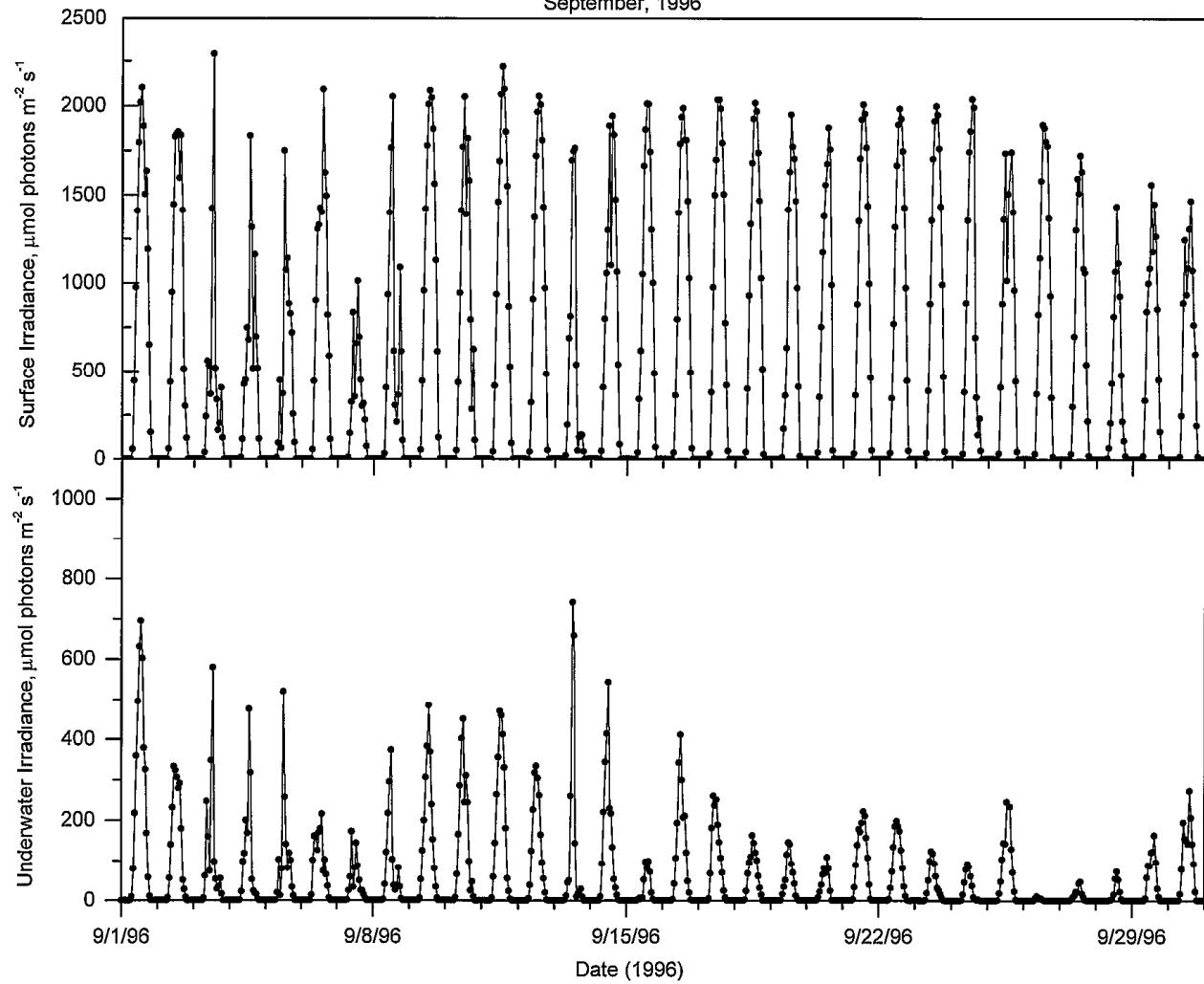
Surface and Underwater Irradiance at LLM 1
July, 1996



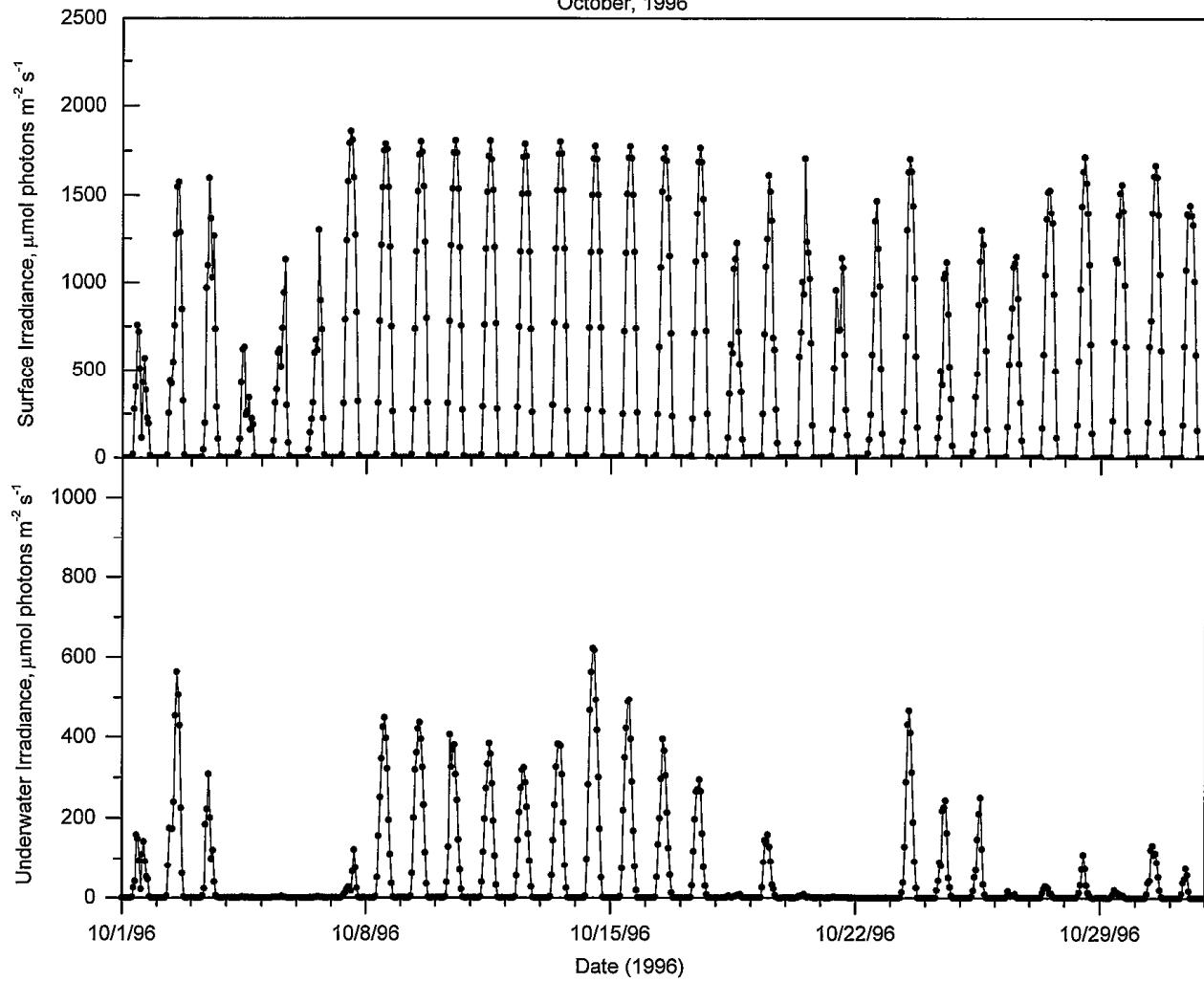
Surface and Underwater Irradiance at LLM 1
August, 1996



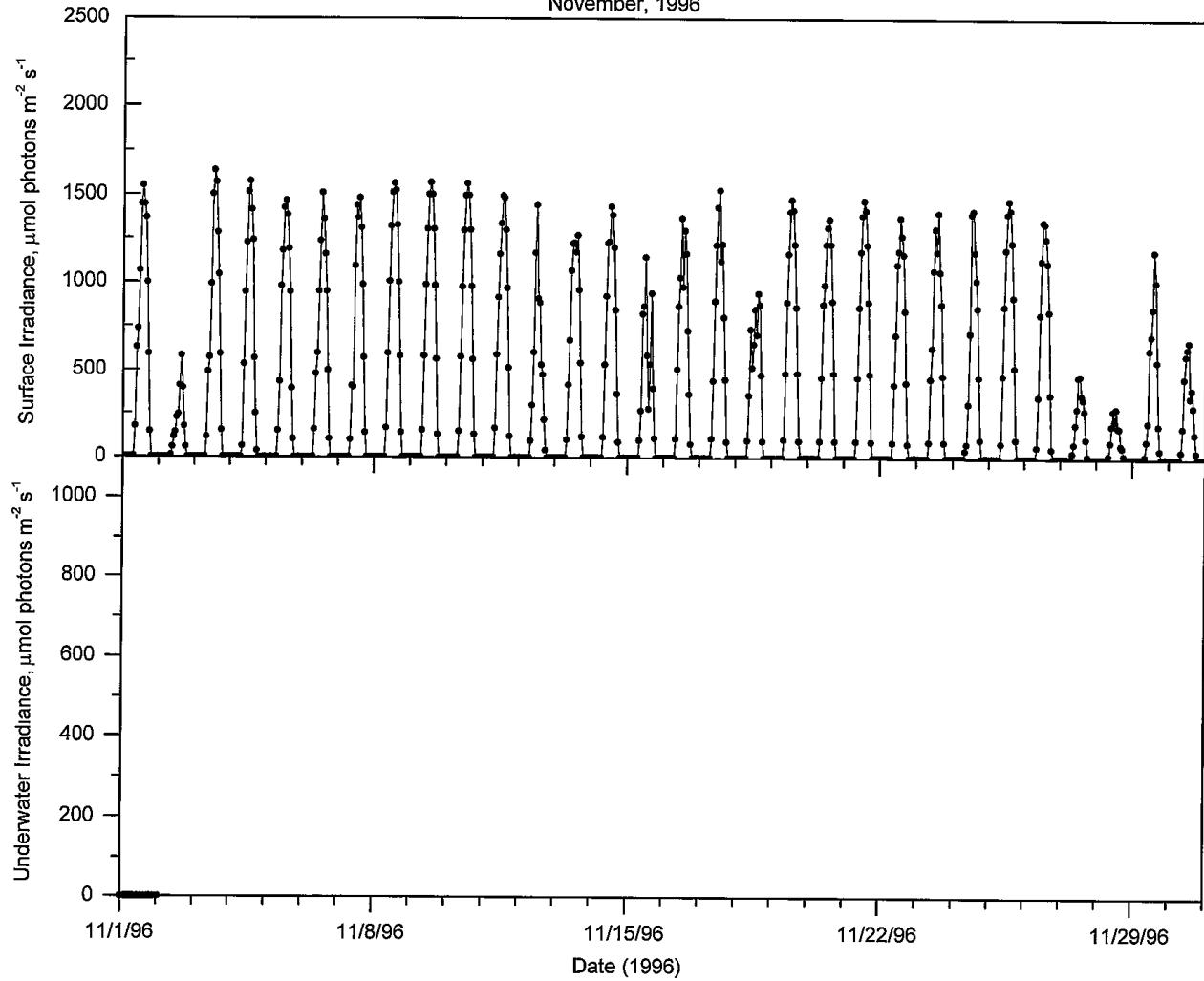
Surface and Underwater Irradiance at LLM 1
September, 1996



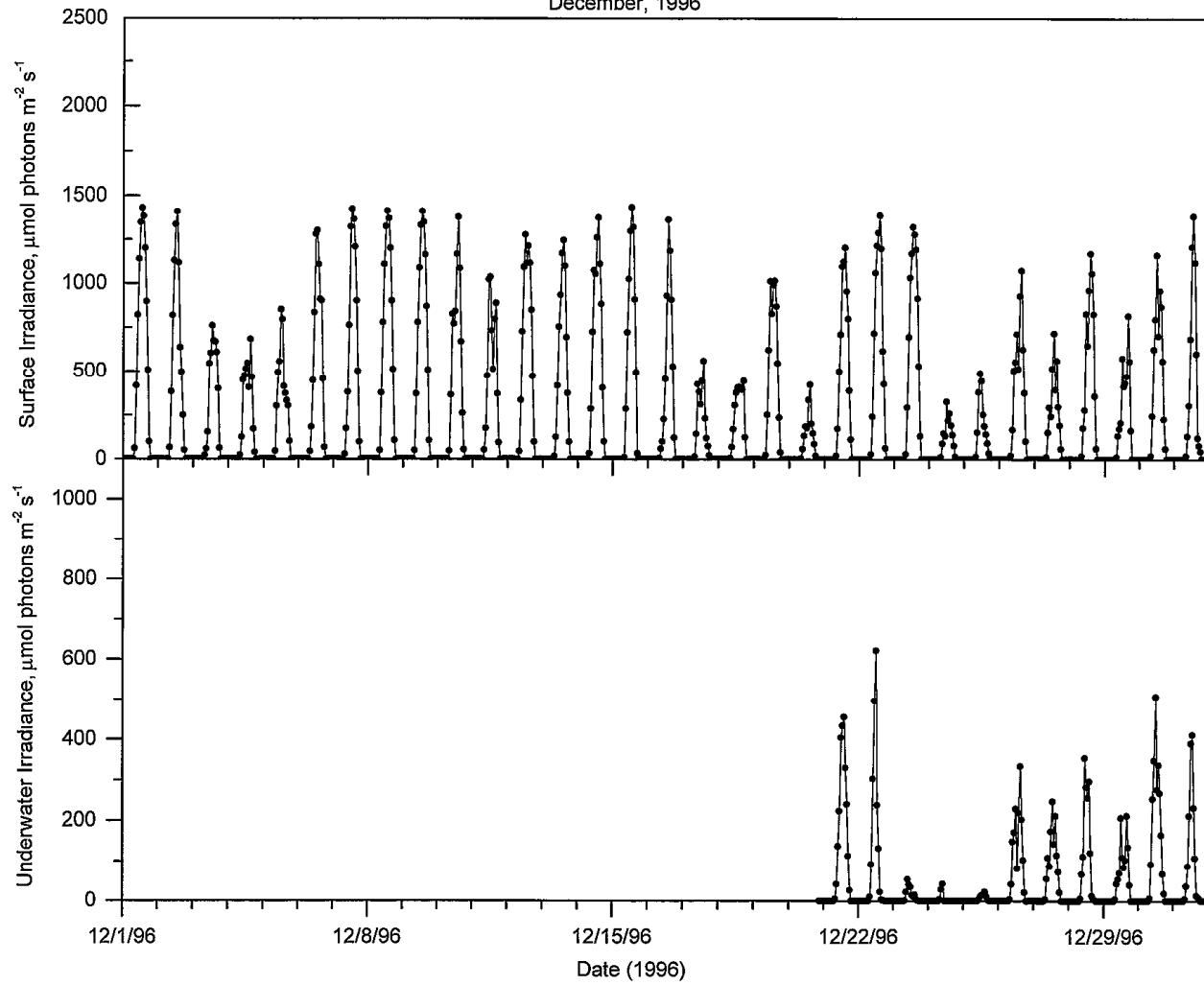
Surface and Underwater Irradiance at LLM 1
October, 1996



Surface and Underwater Irradiance at LLM 1
November, 1996

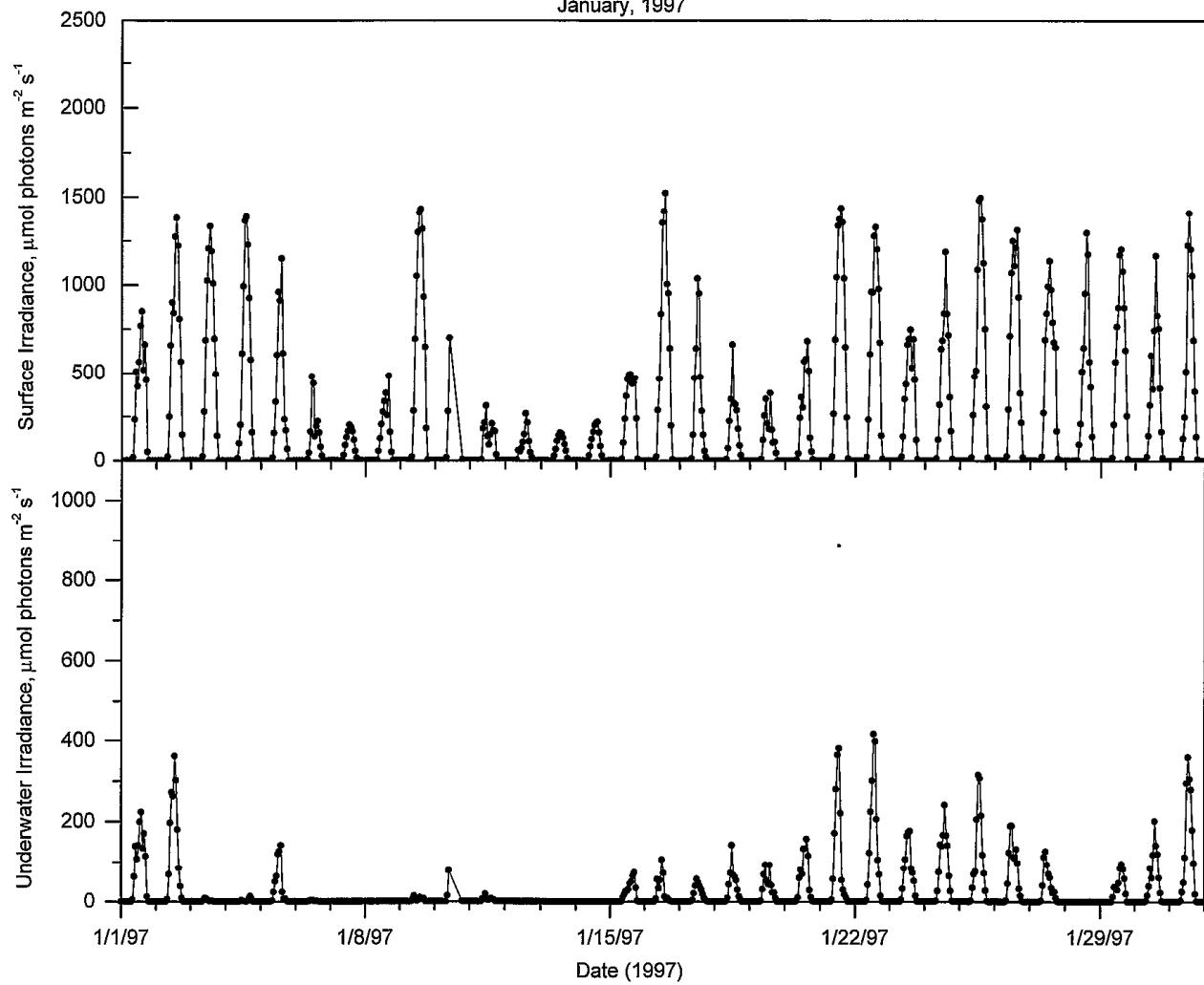


Surface and Underwater Irradiance at LLM 1
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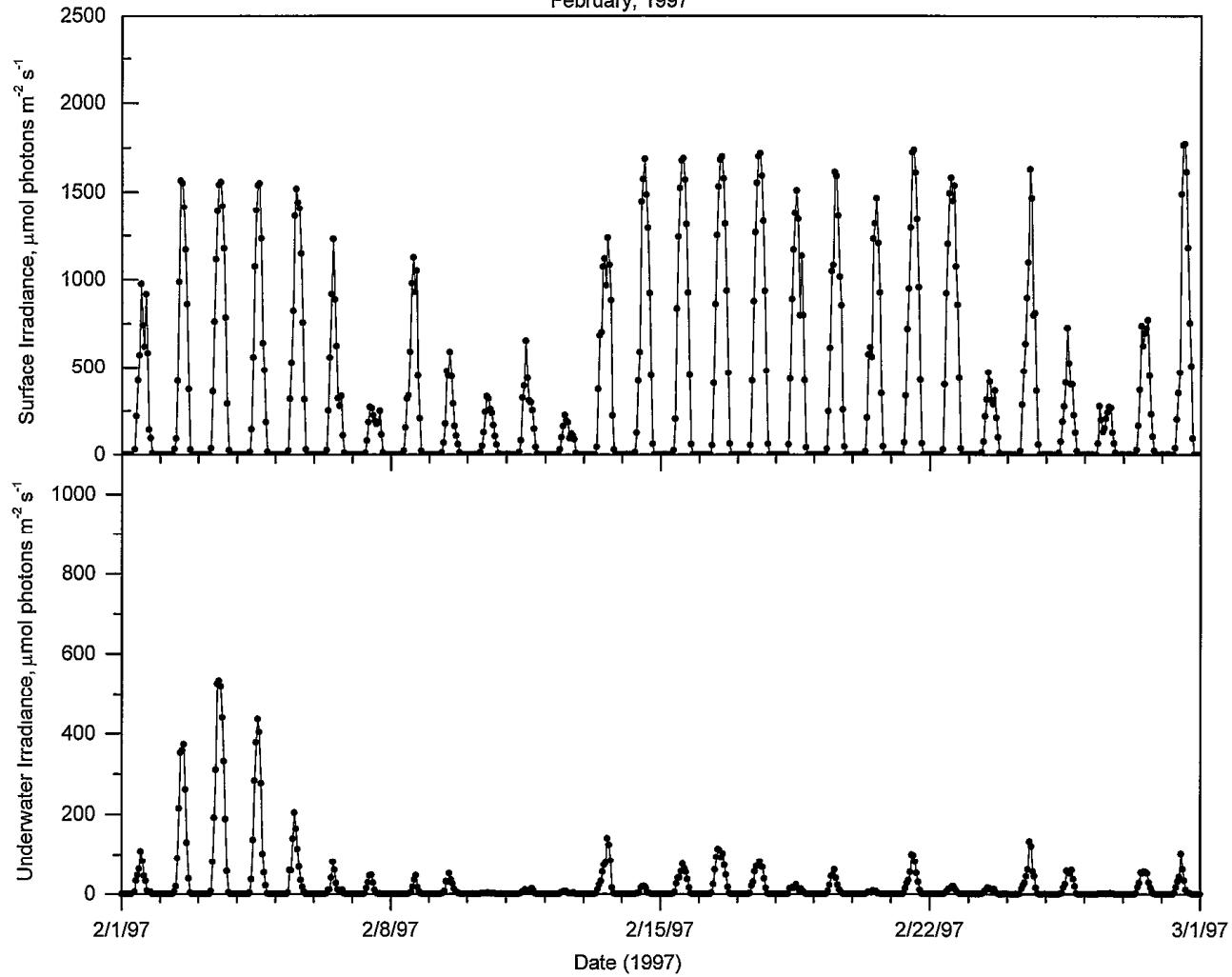


Surface and Underwater Irradiance at LLM 1

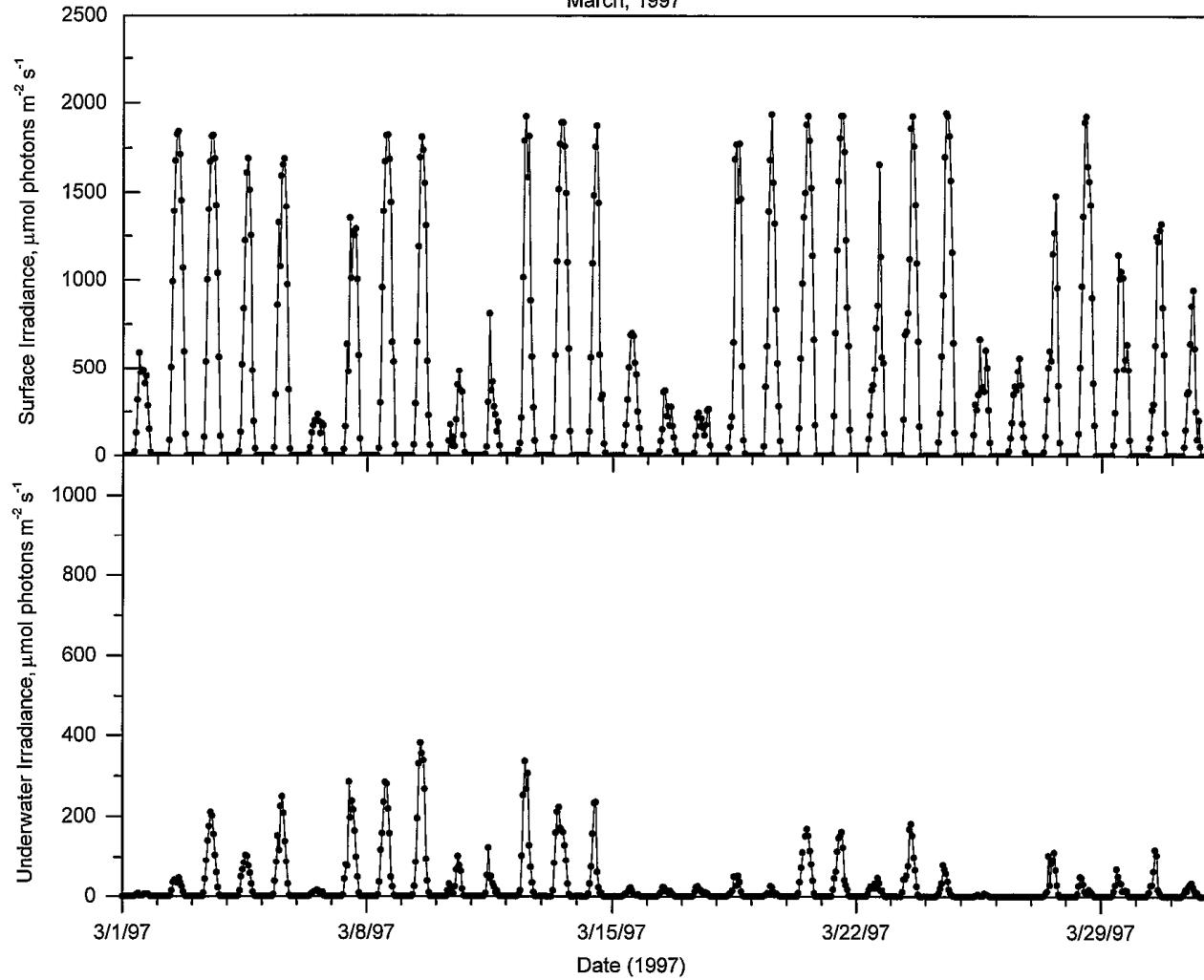
January, 1997



Surface and Underwater Irradiance at LLM 1
February, 1997

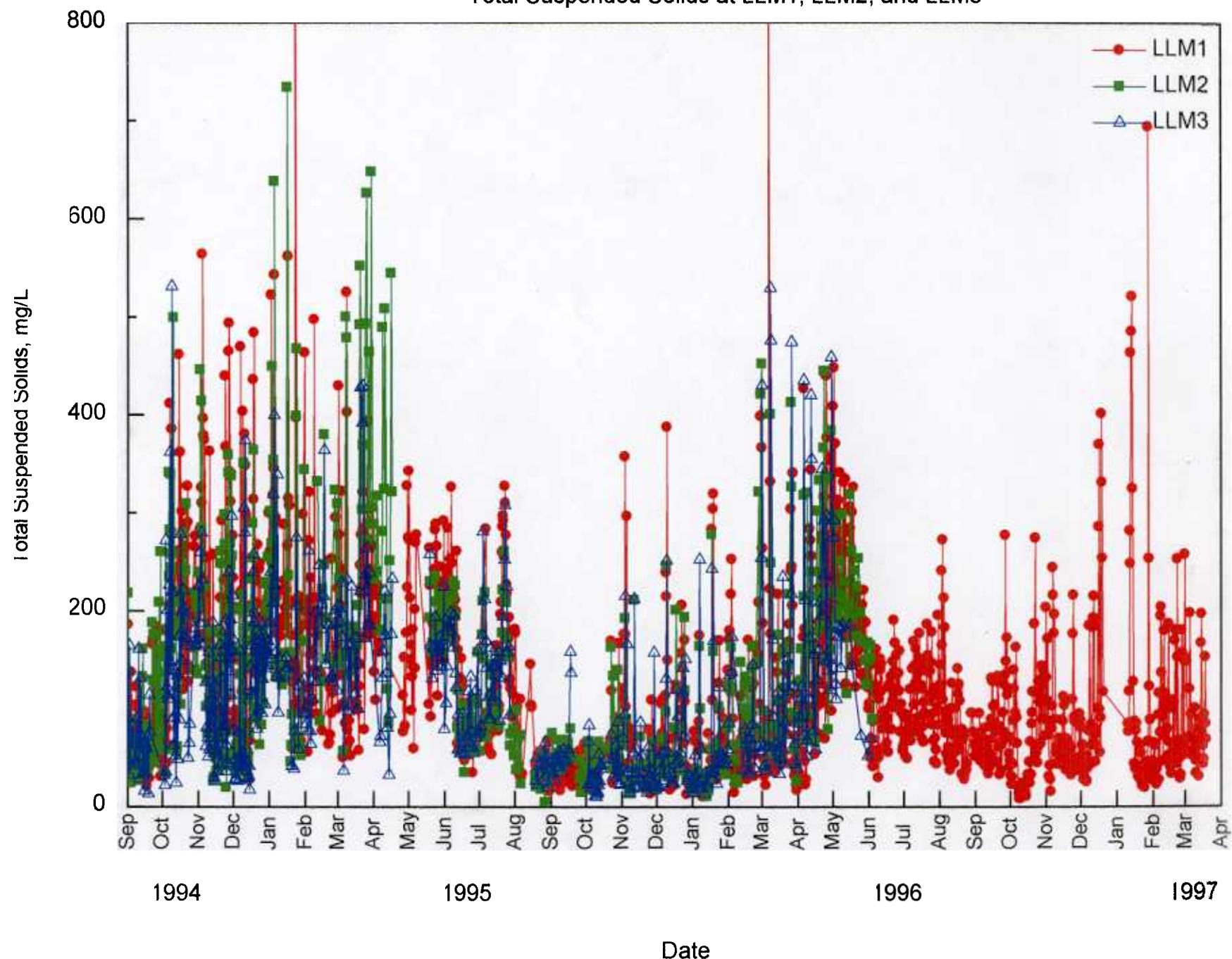


Surface and Underwater Irradiance at LLM 1
March, 1997



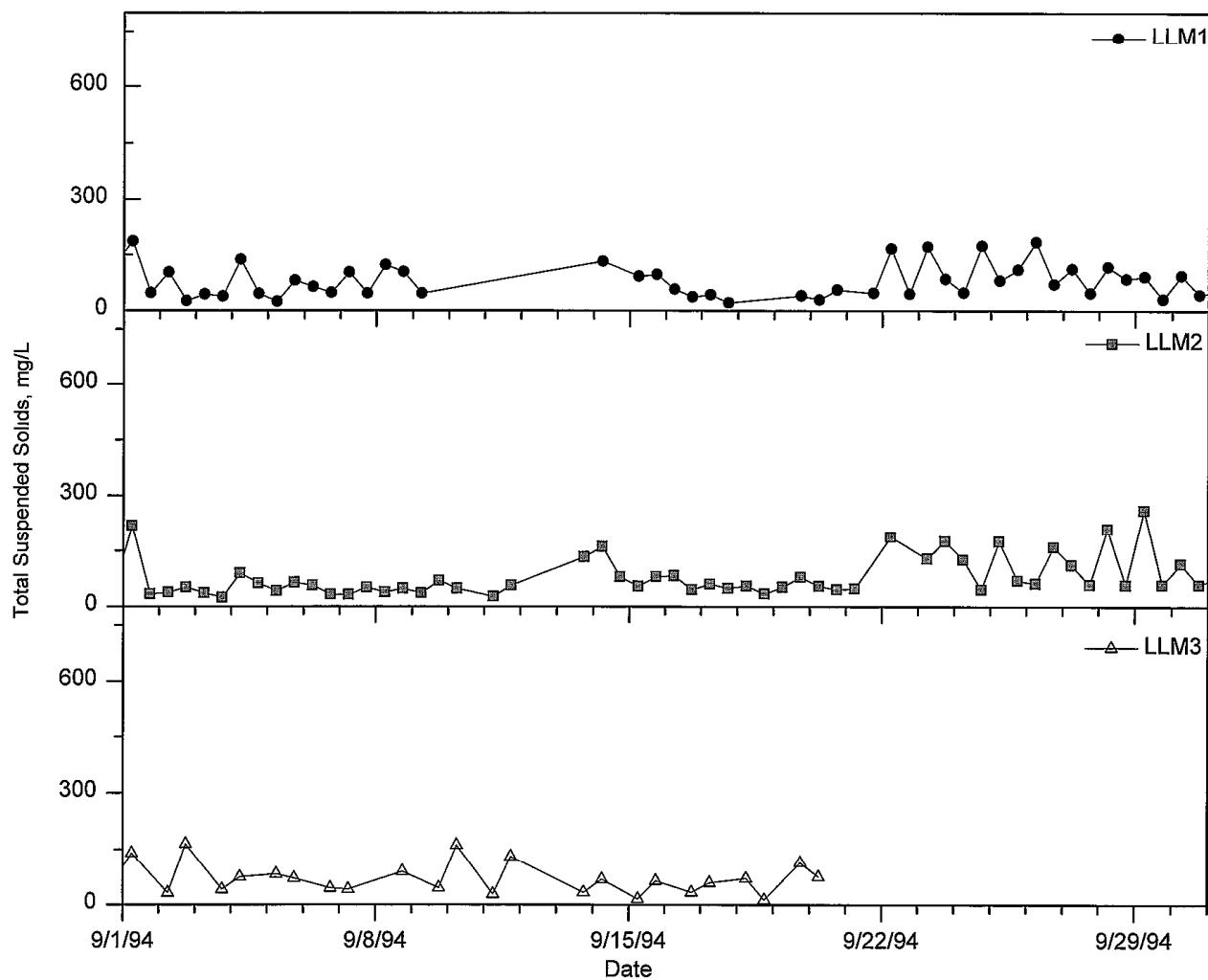
Chapter 2: TSS Graph

Total Suspended Solids at LLM1, LLM2, and LLM3



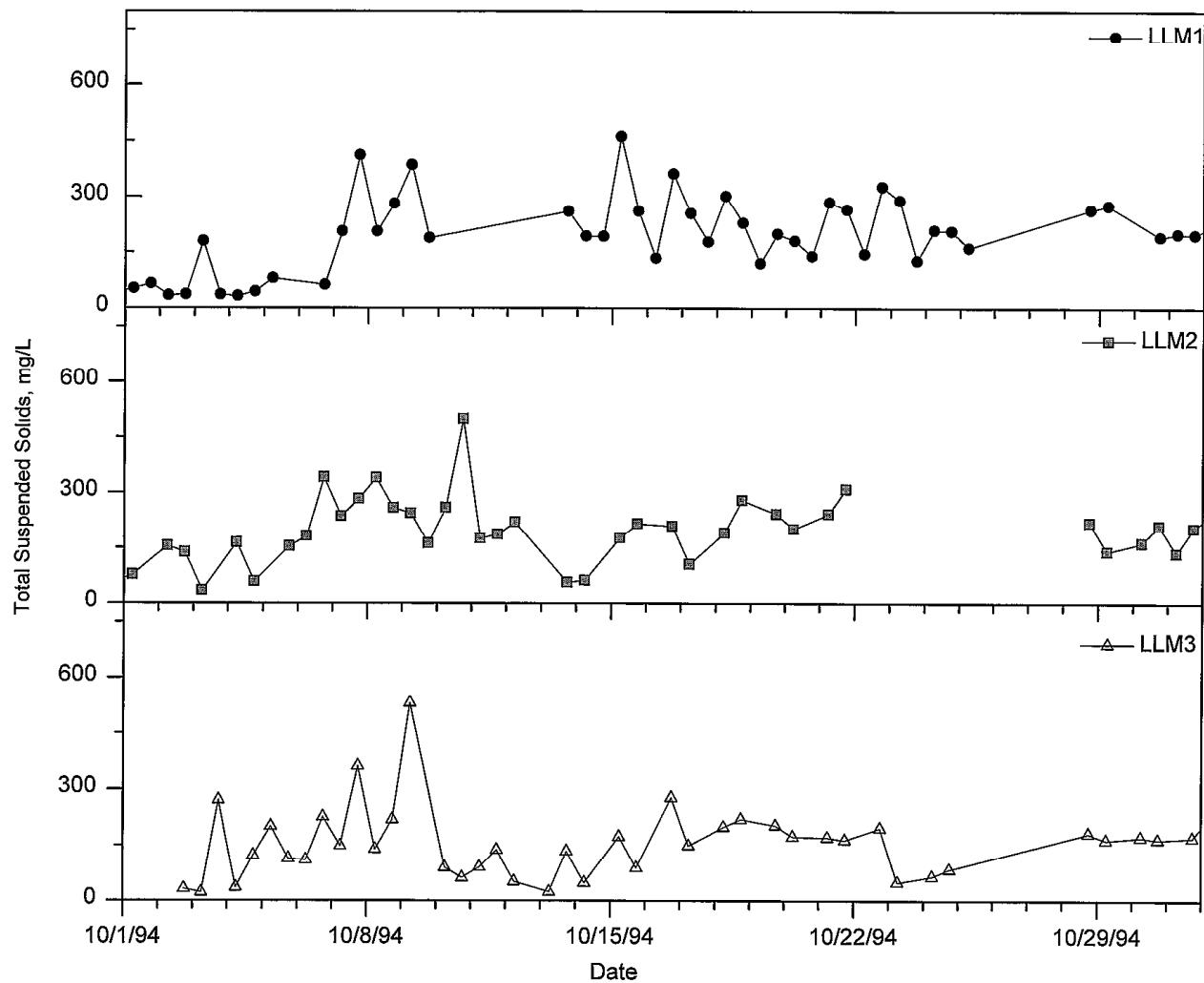
Total Suspended Solids in Lower Laguna Madre

September, 1994



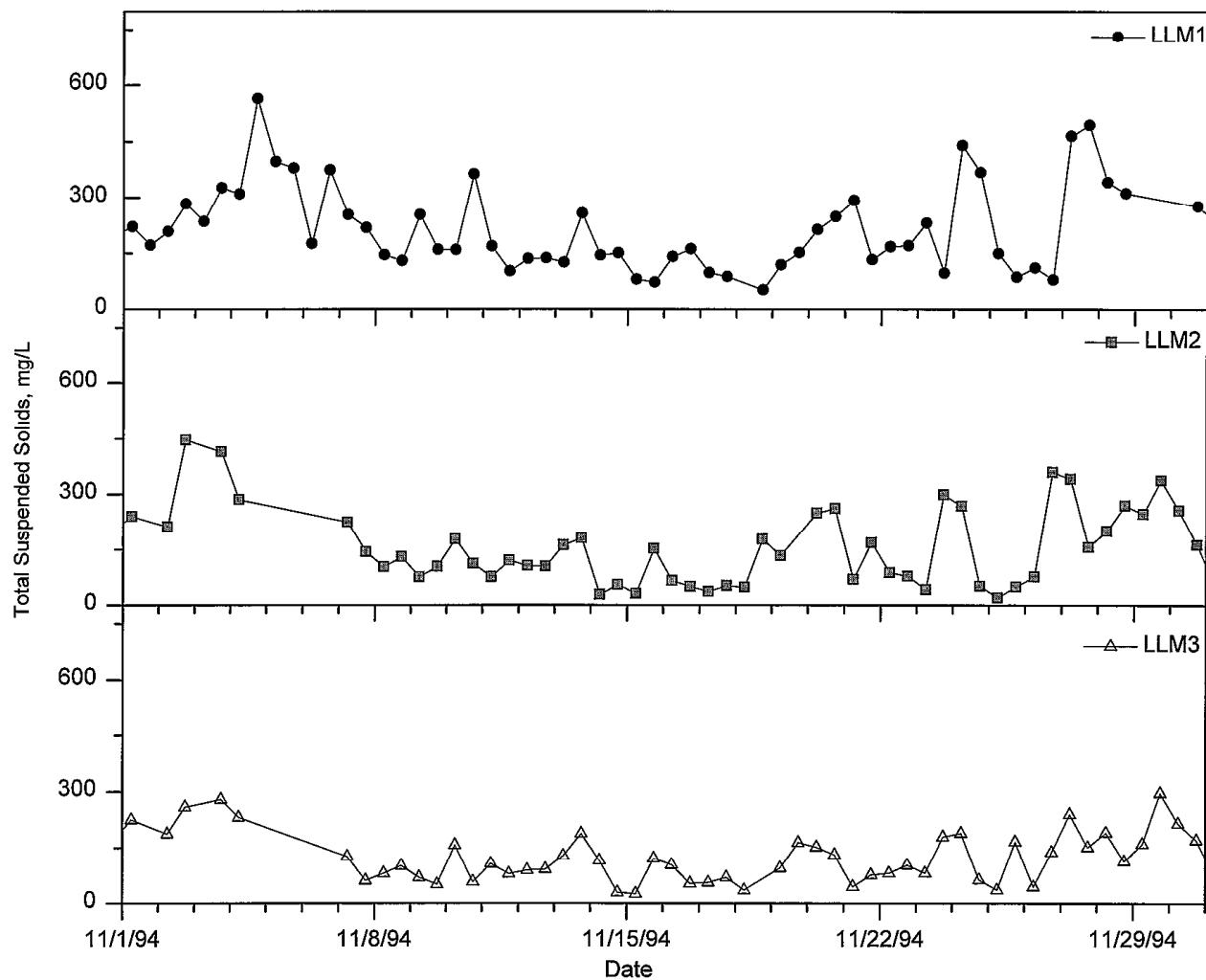
Total Suspended Solids in Lower Laguna Madre

October, 1994



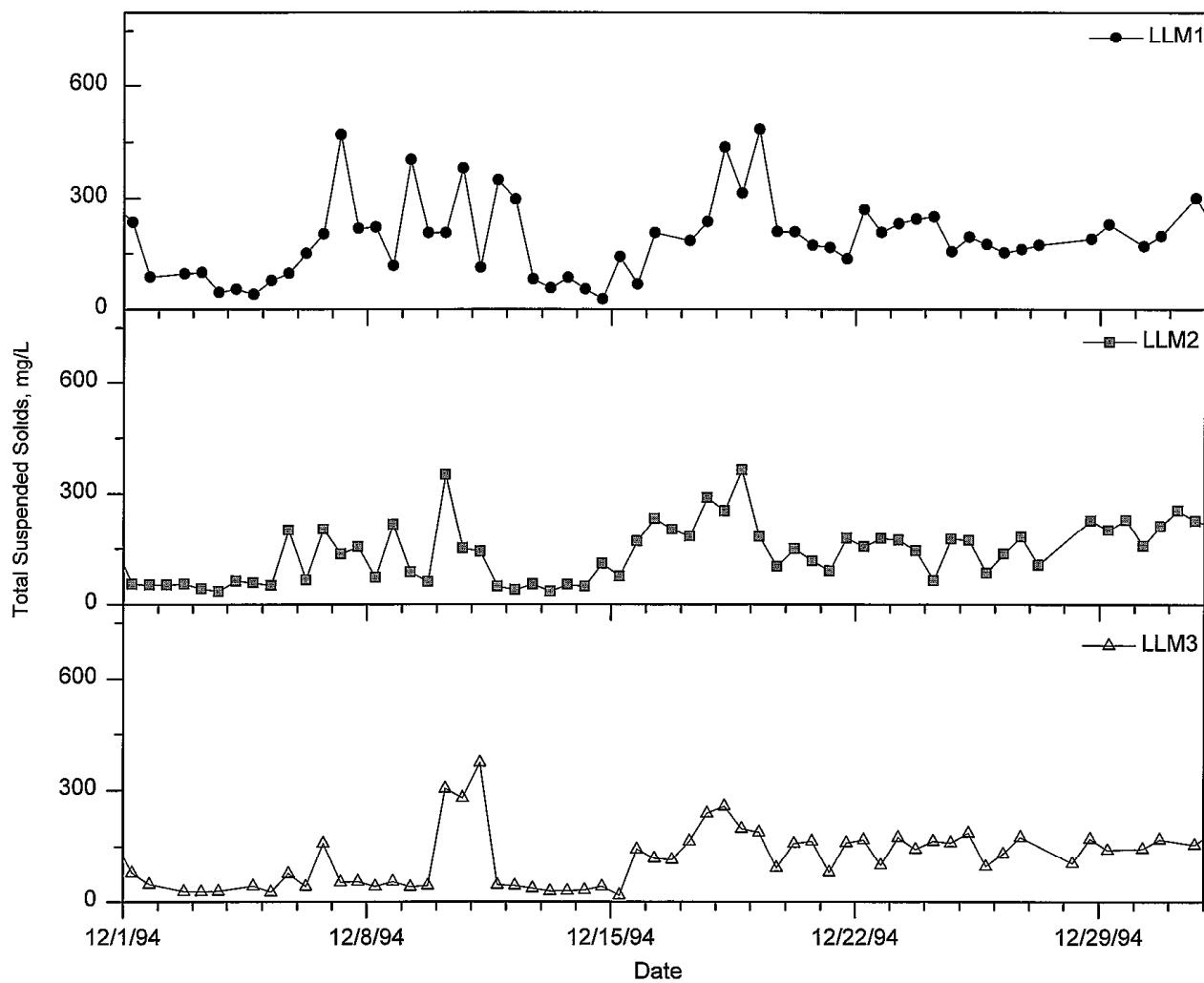
Total Suspended Solids in Lower Laguna Madre

November, 1994



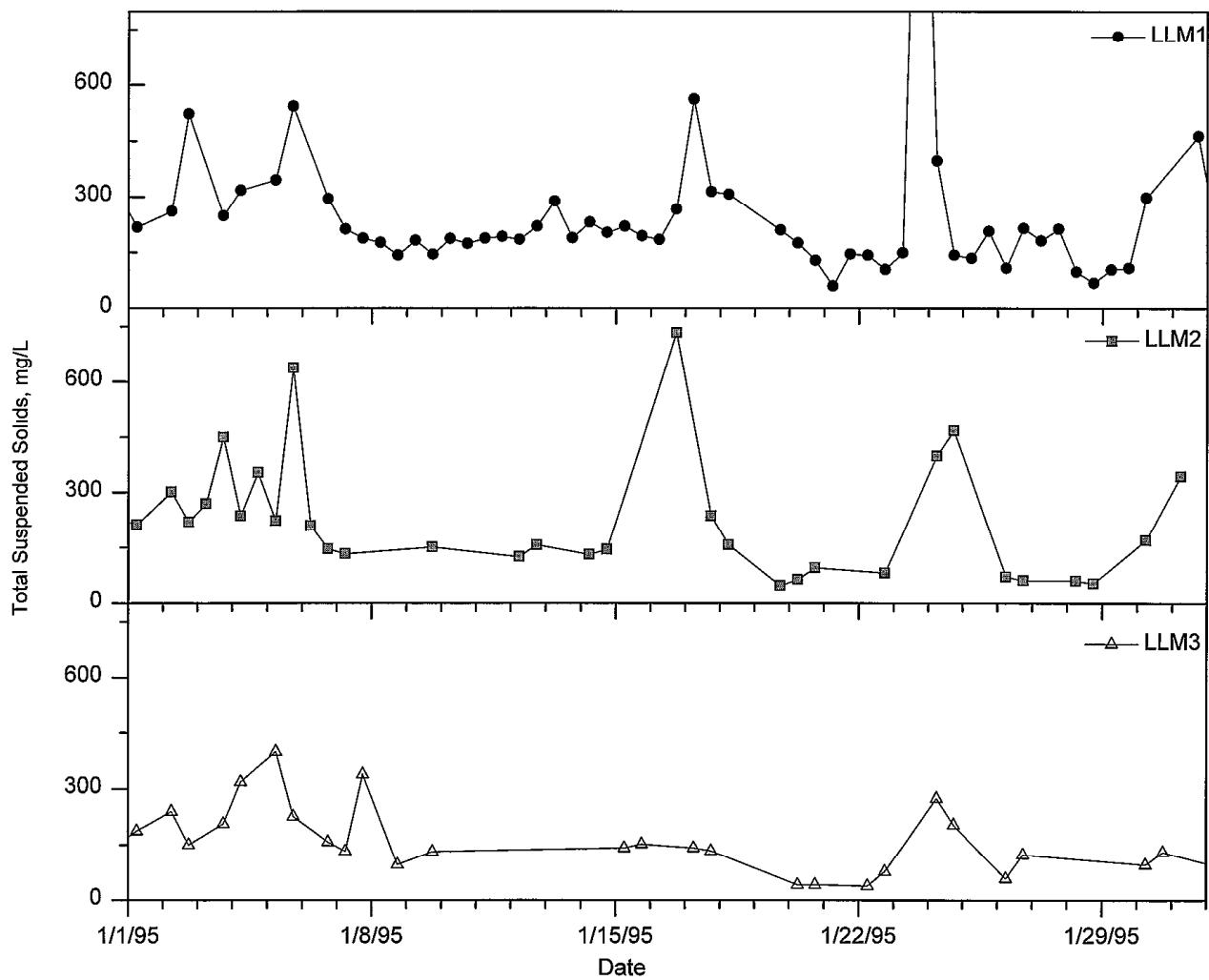
Total Suspended Solids in Lower Laguna Madre

December, 1994



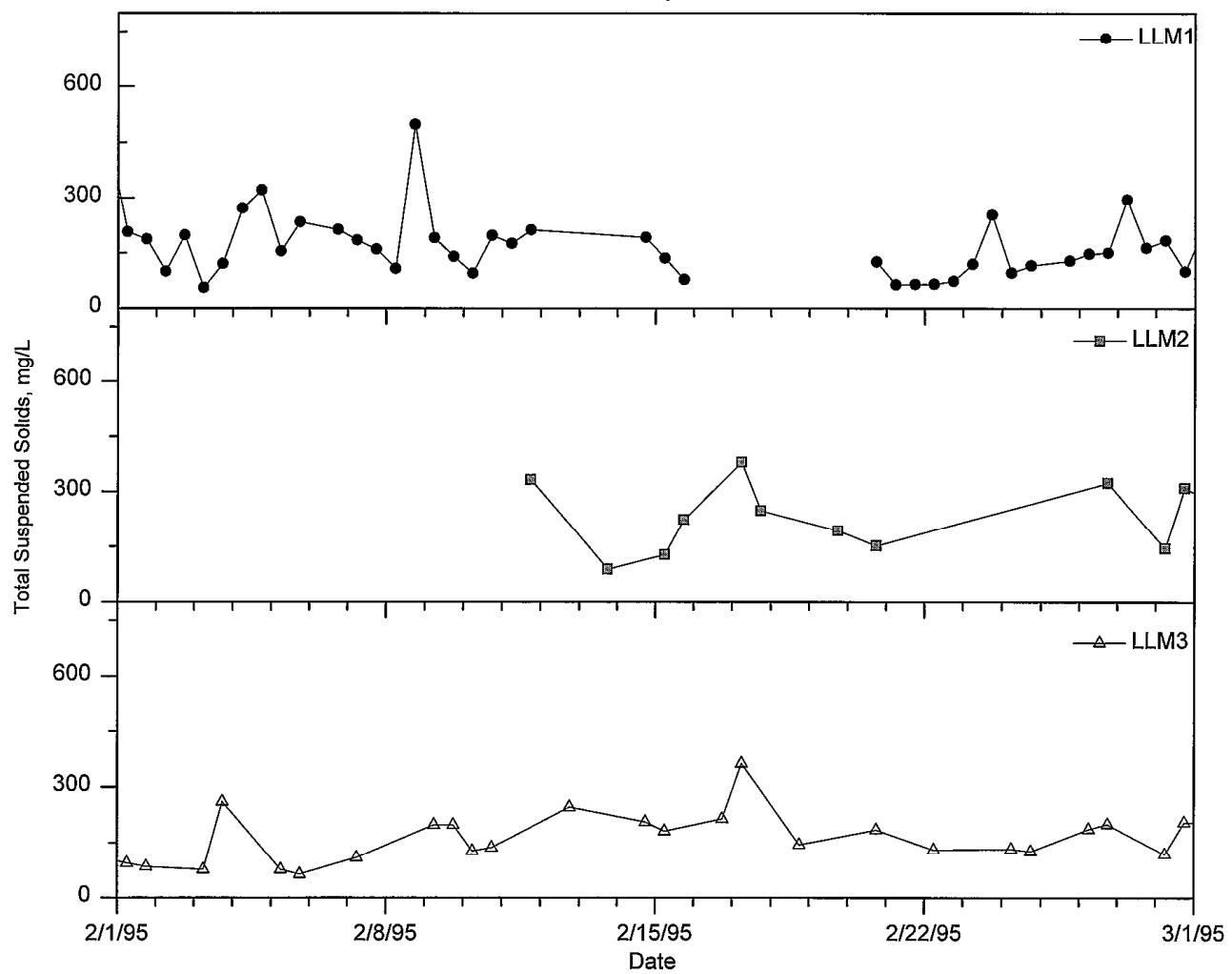
Total Suspended Solids in Lower Laguna Madre

January, 1995



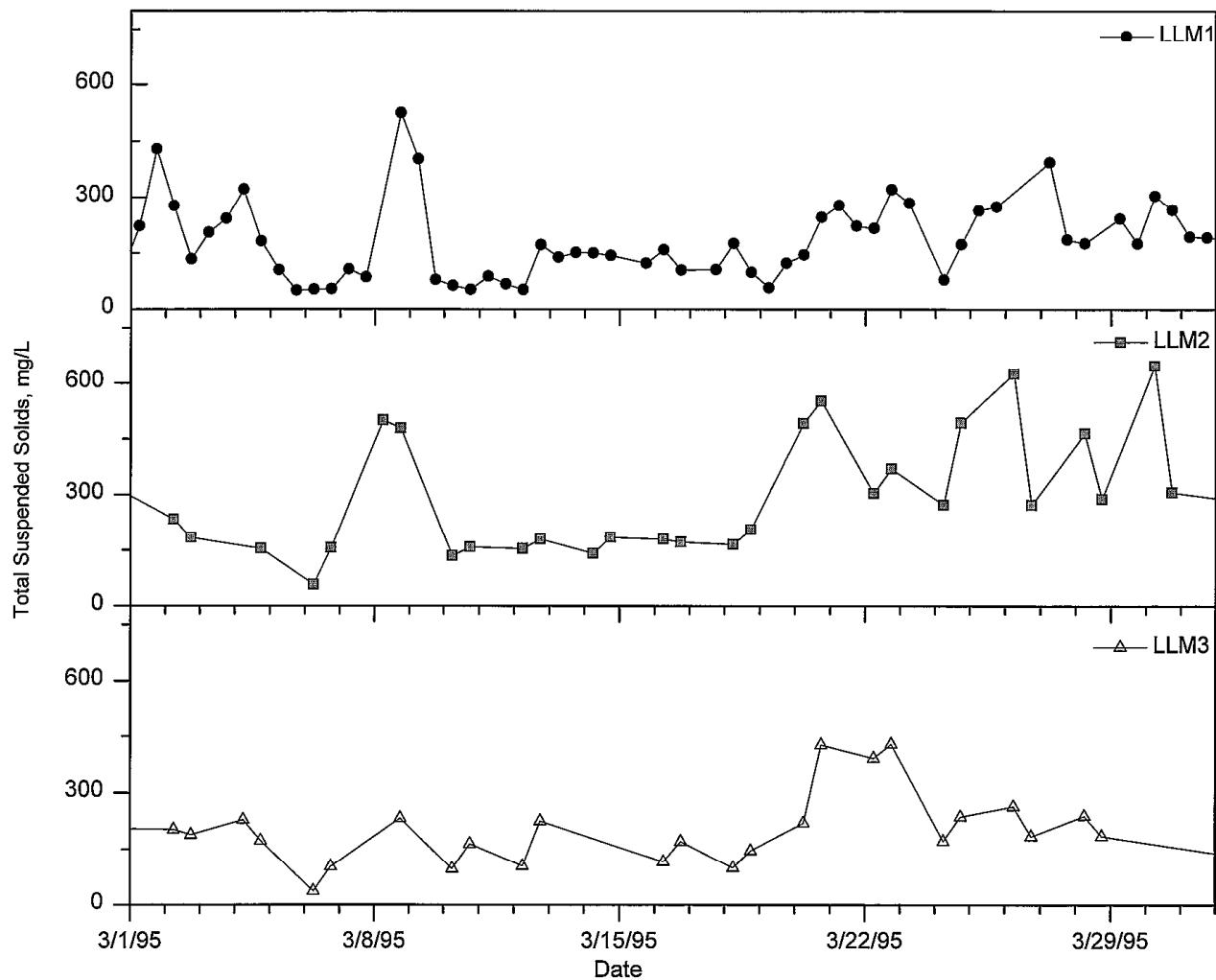
Total Suspended Solids in Lower Laguna Madre

February, 1995



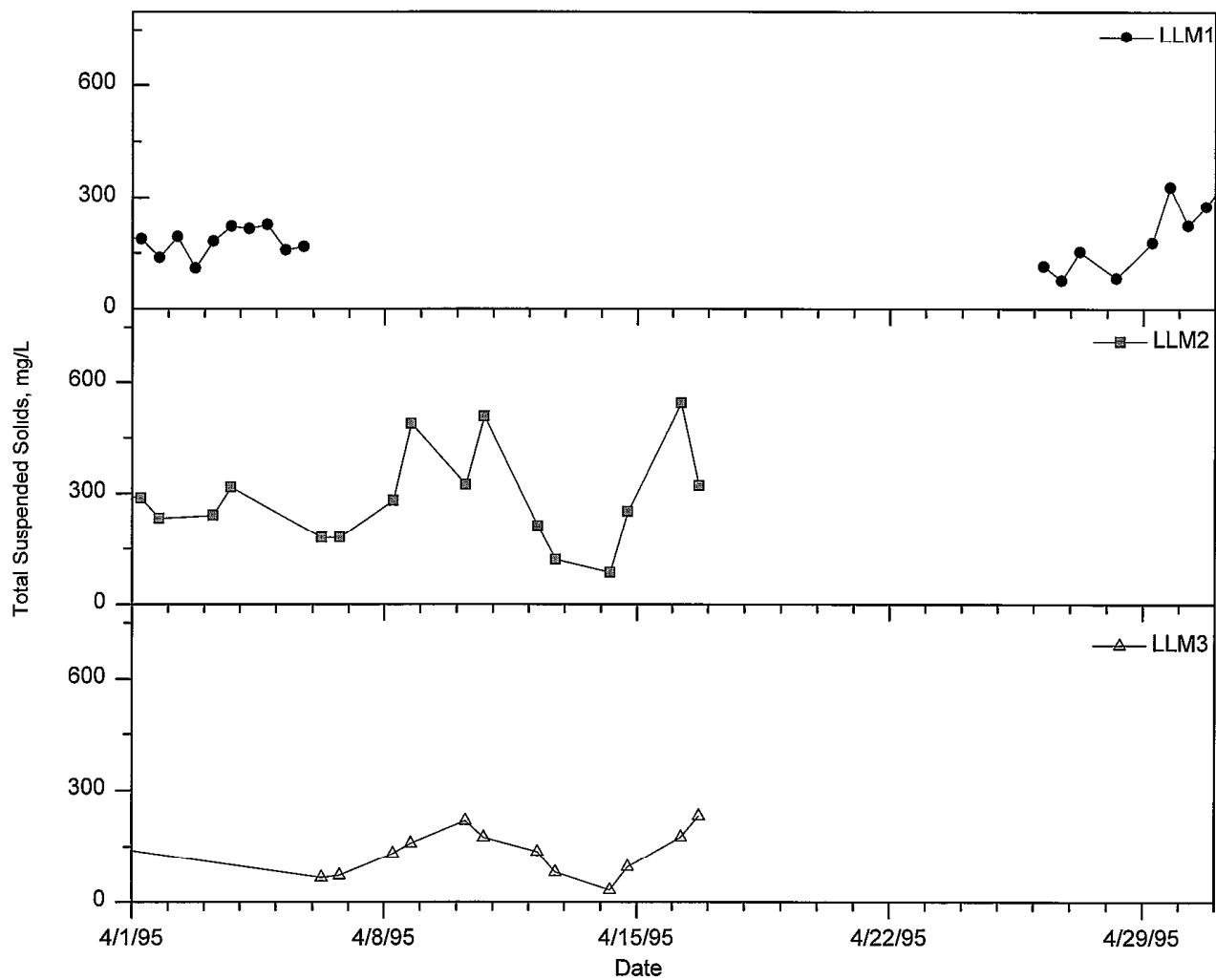
Total Suspended Solids in Lower Laguna Madre

March, 1995



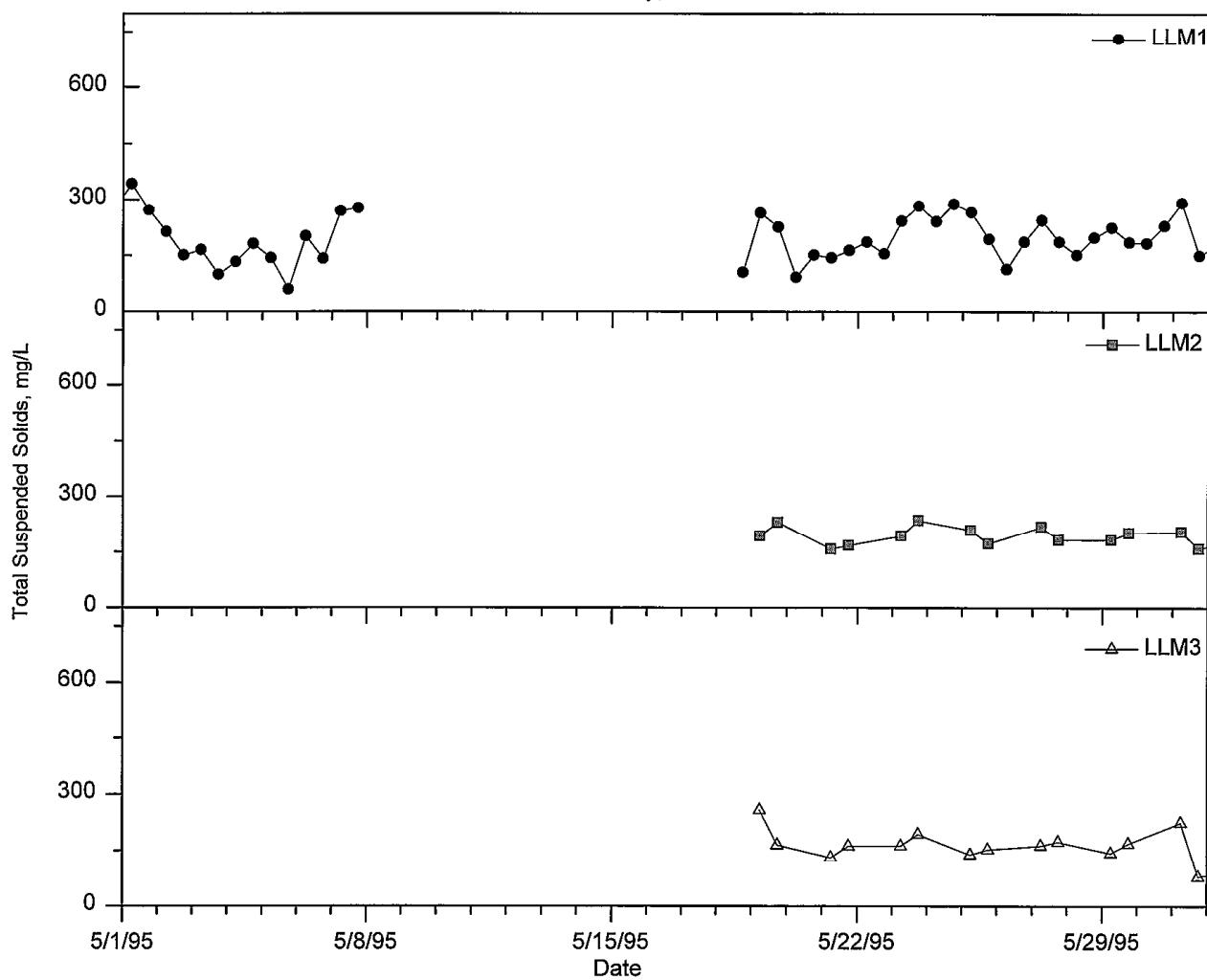
Total Suspended Solids in Lower Laguna Madre

April, 1995



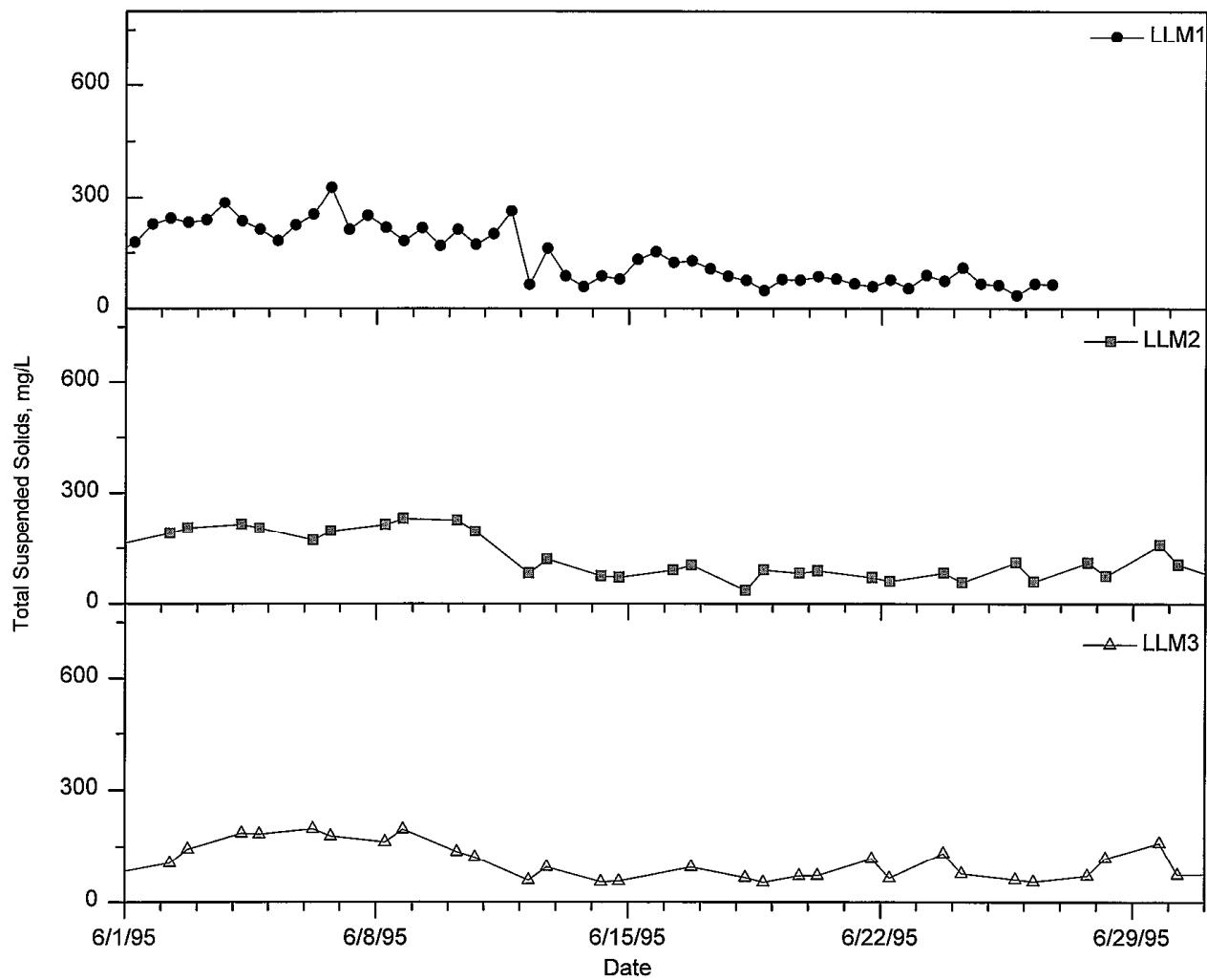
Total Suspended Solids in Lower Laguna Madre

May, 1995



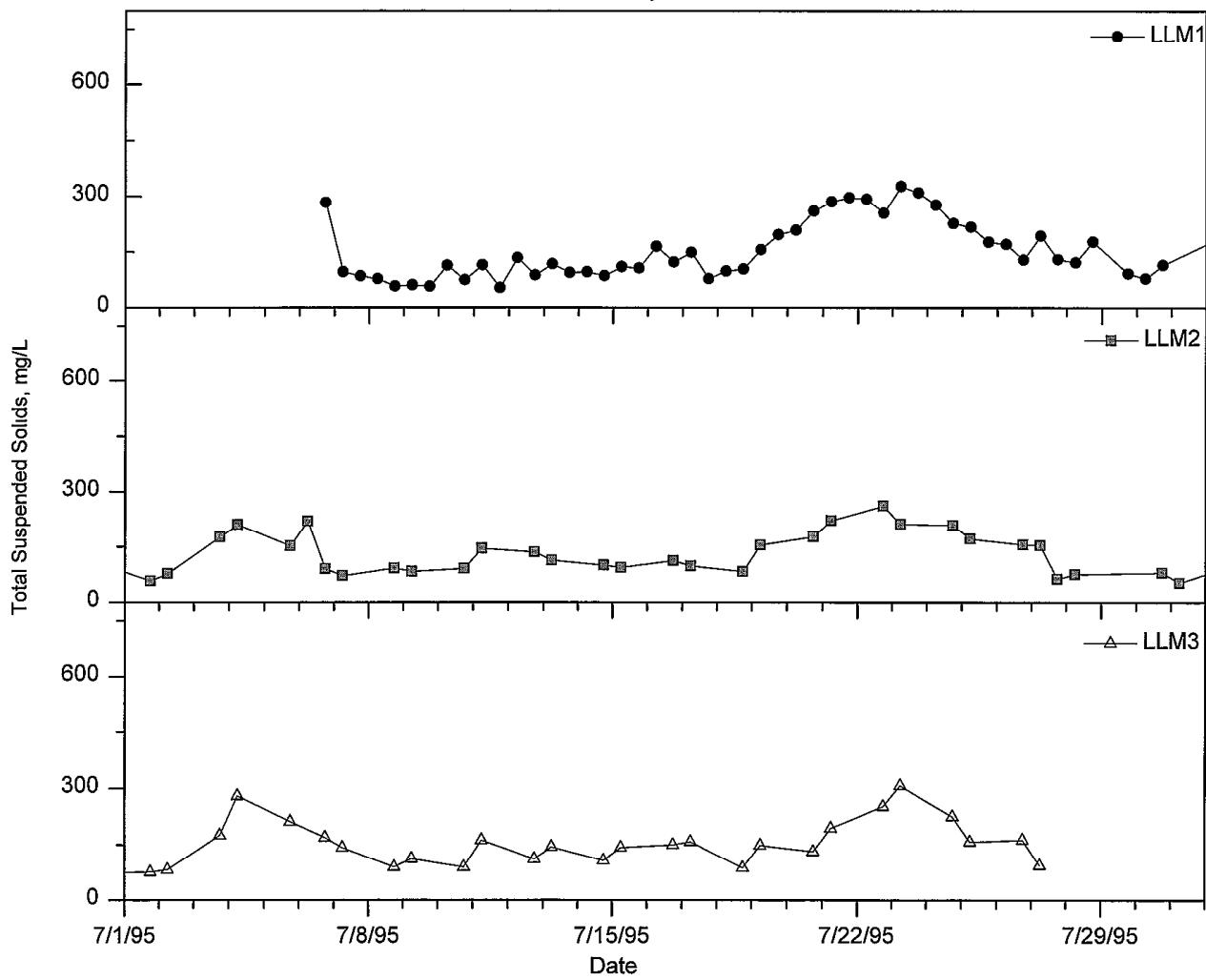
Total Suspended Solids in Lower Laguna Madre

June, 1995



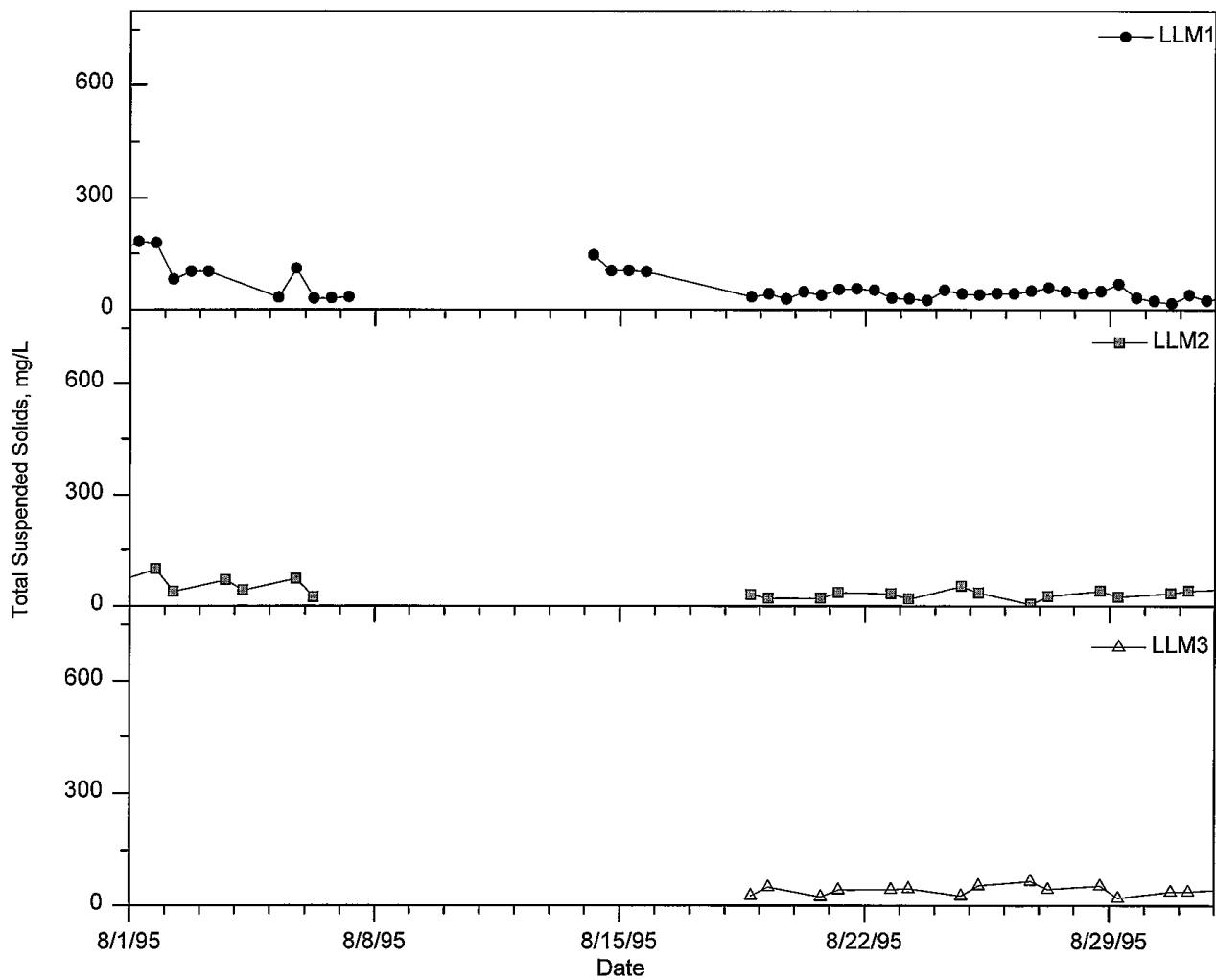
Total Suspended Solids in Lower Laguna Madre

July, 1995



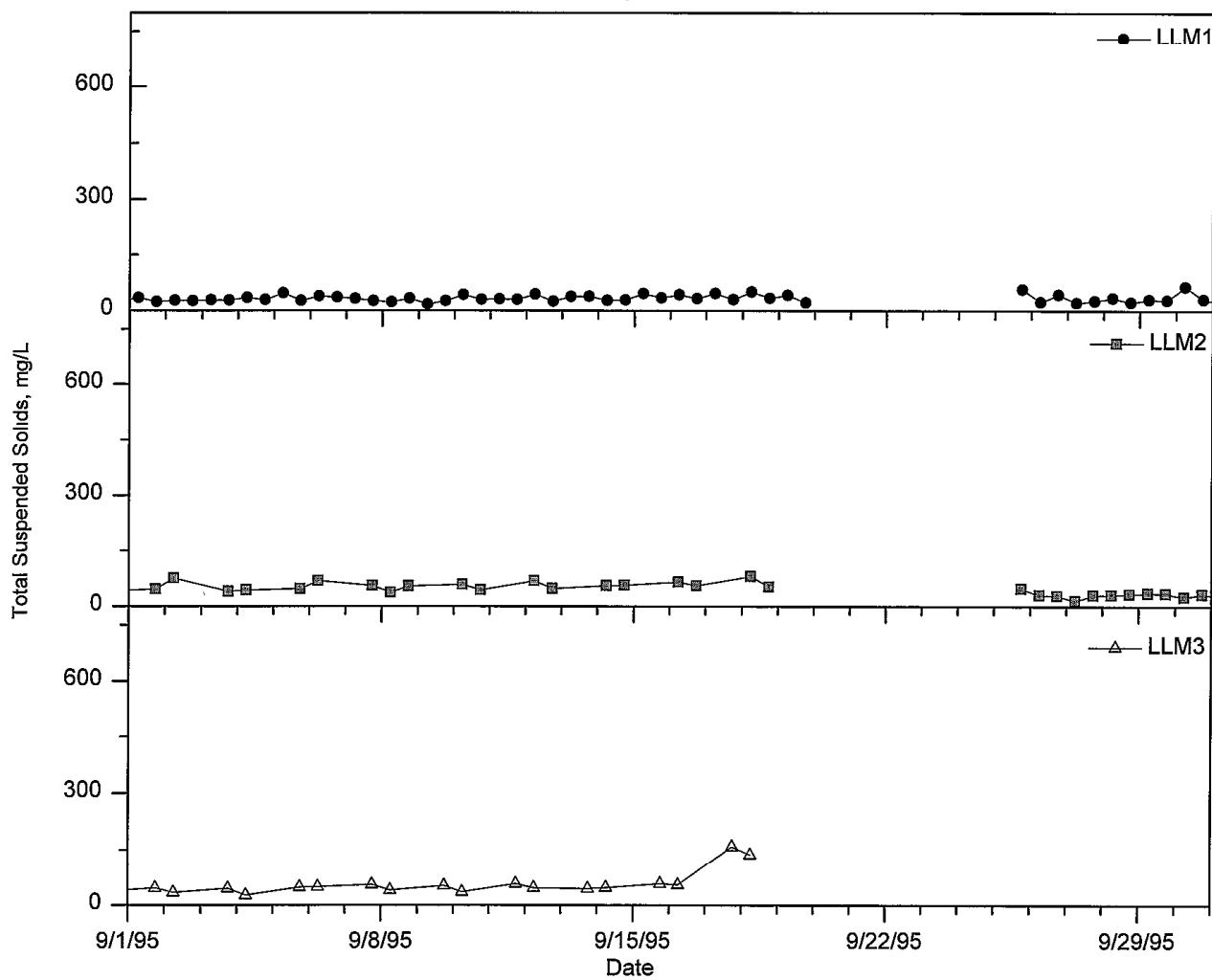
Total Suspended Solids in Lower Laguna Madre

August, 1995



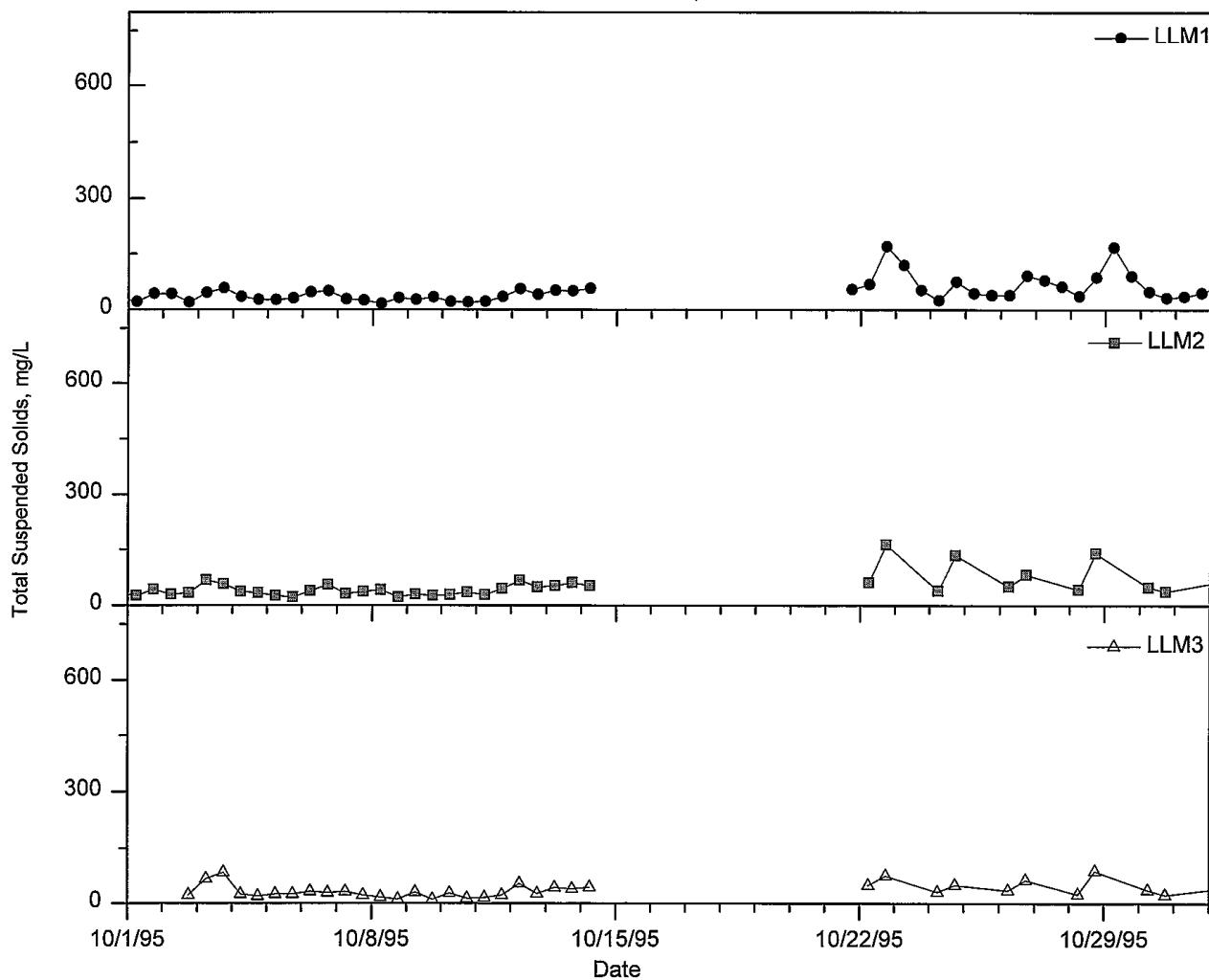
Total Suspended Solids in Lower Laguna Madre

September, 1995



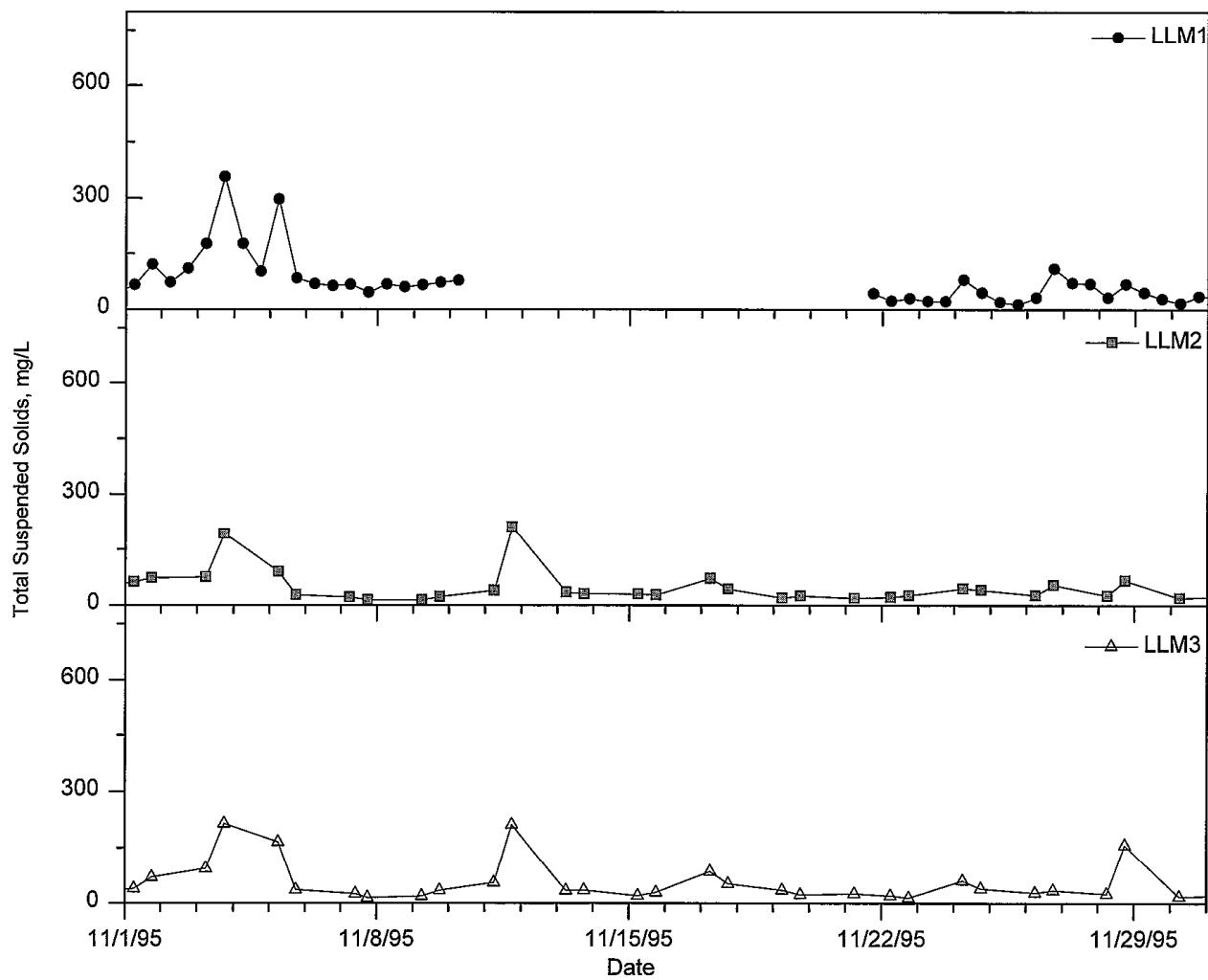
Total Suspended Solids in Lower Laguna Madre

October, 1995



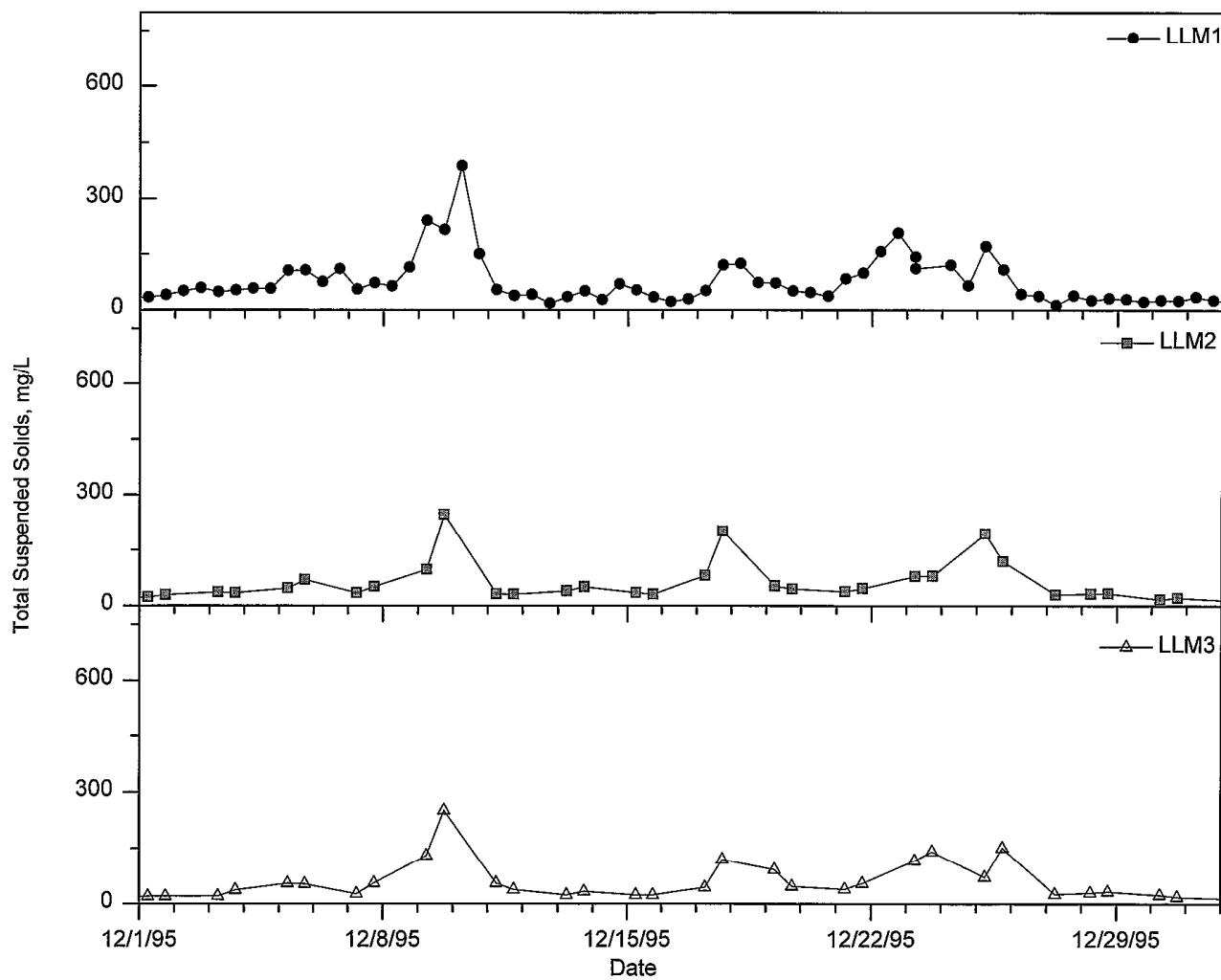
Total Suspended Solids in Lower Laguna Madre

November, 1995



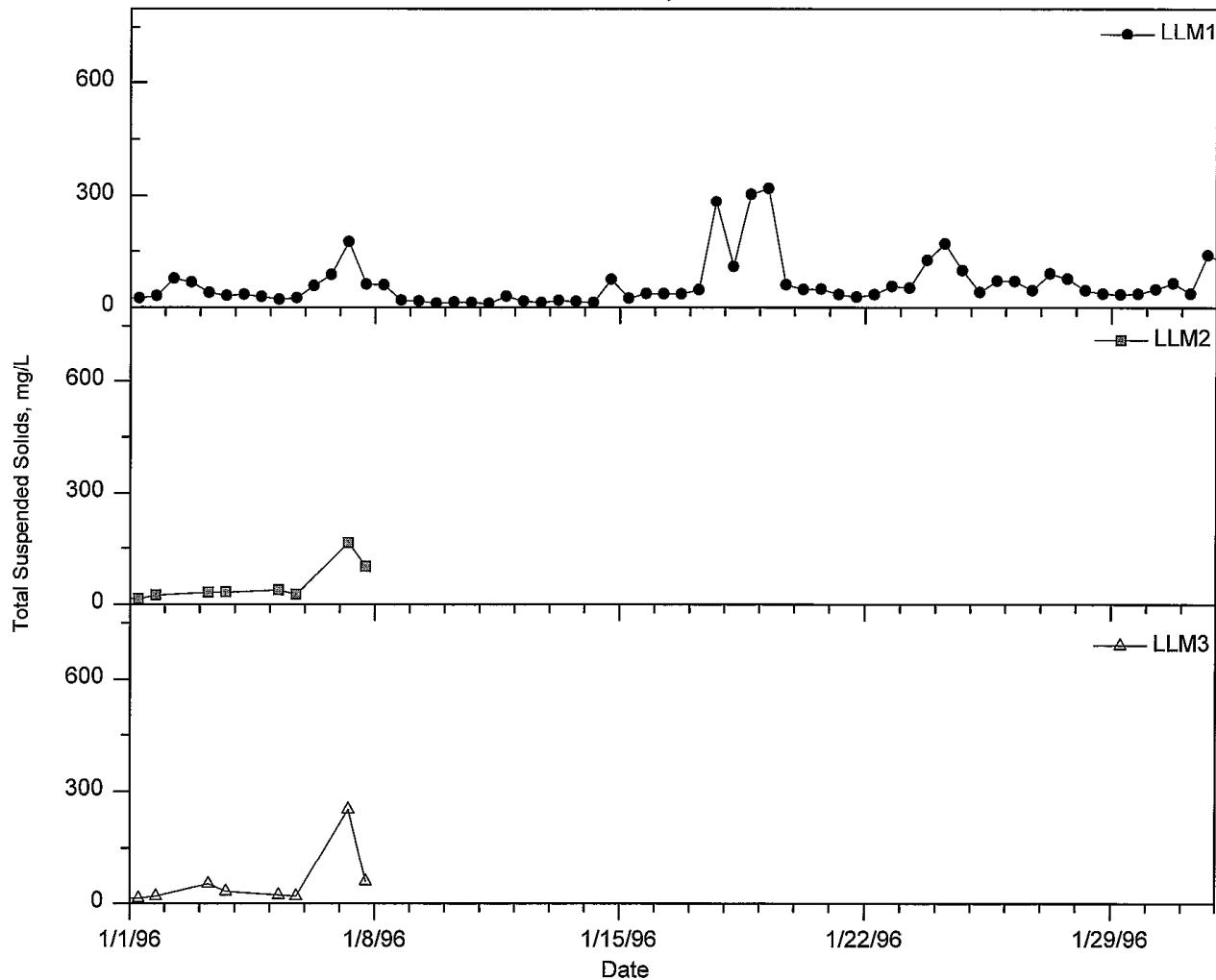
Total Suspended Solids in Lower Laguna Madre

December, 1995



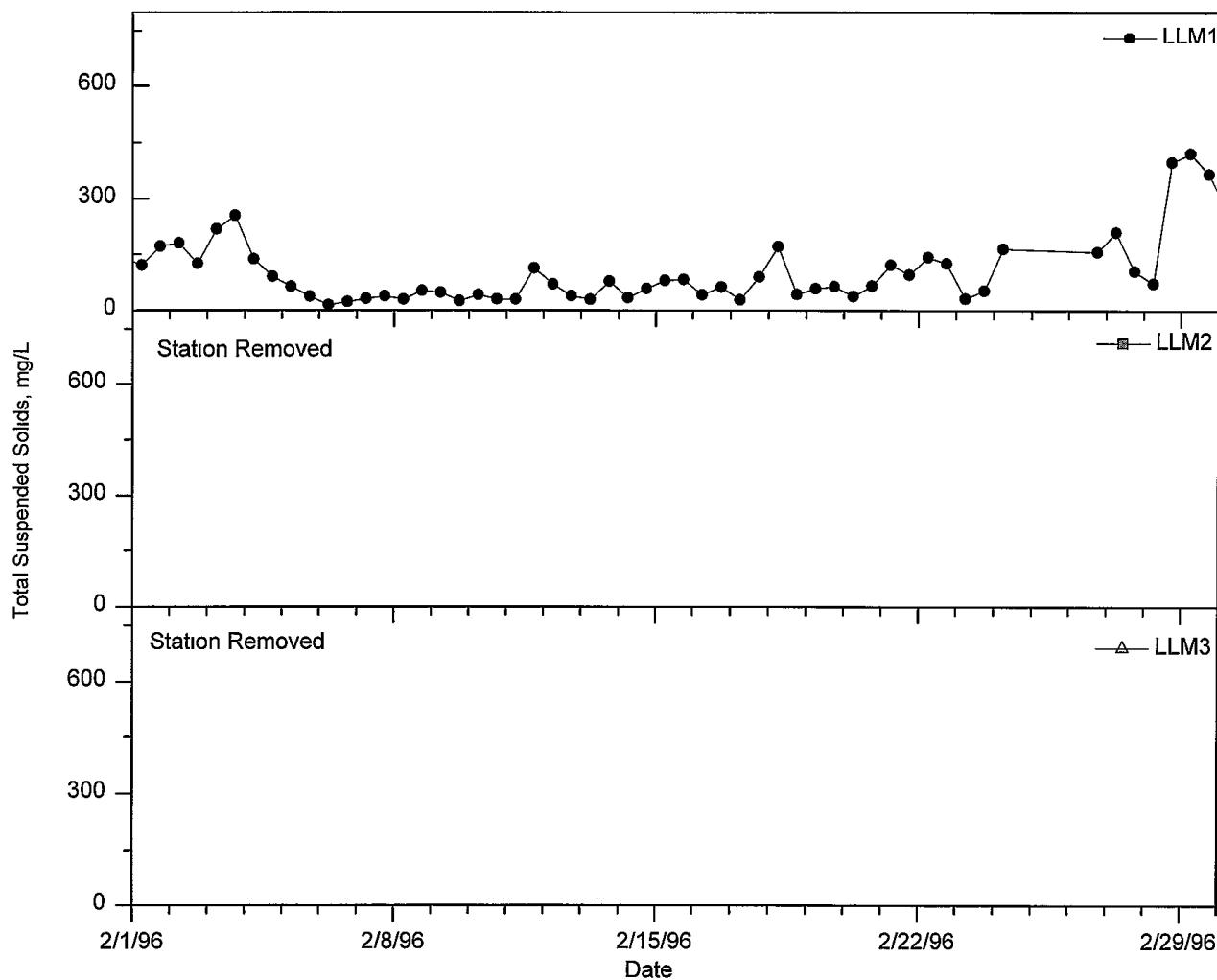
Total Suspended Solids in Lower Laguna Madre

January, 1996



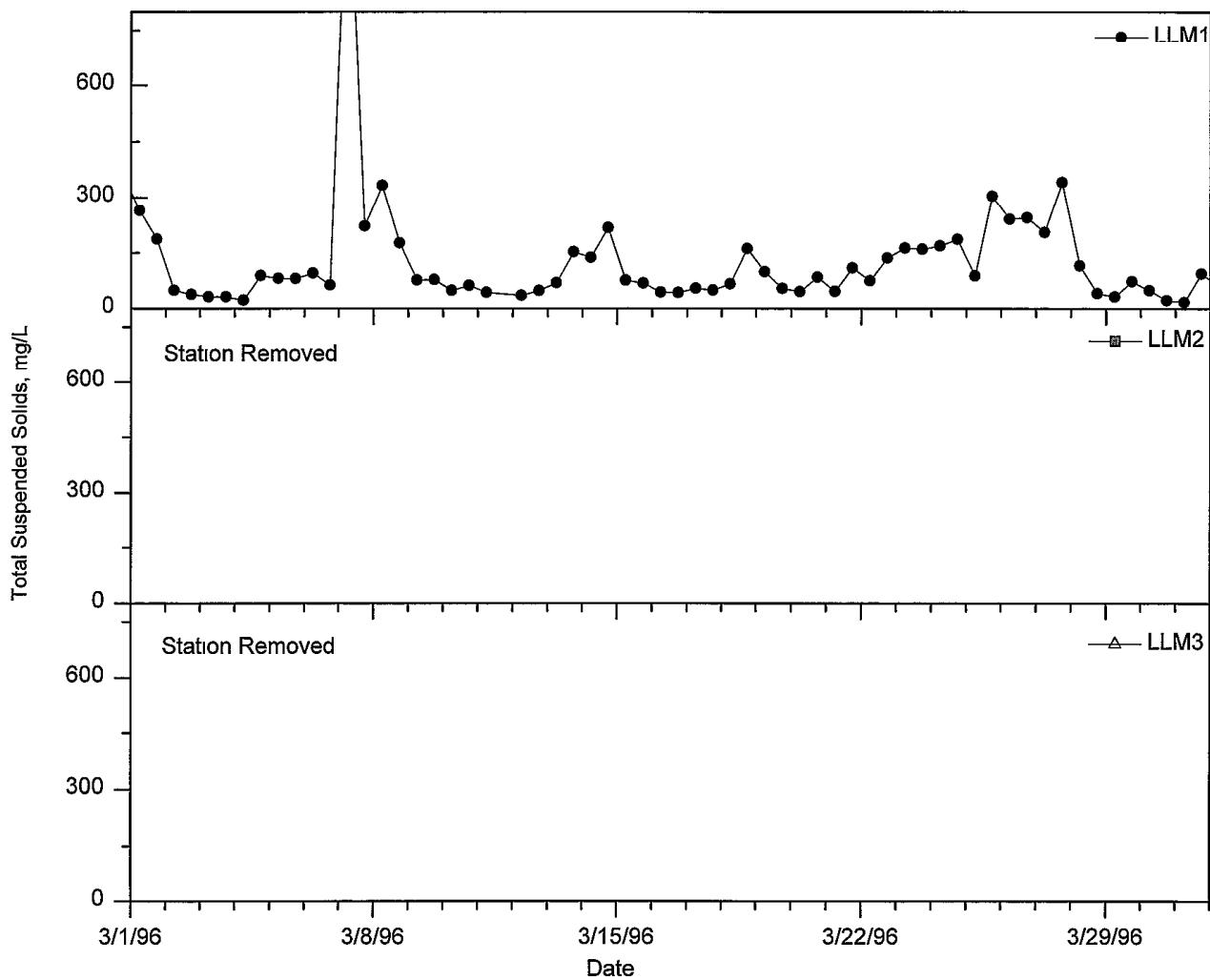
Total Suspended Solids in Lower Laguna Madre

February, 1996



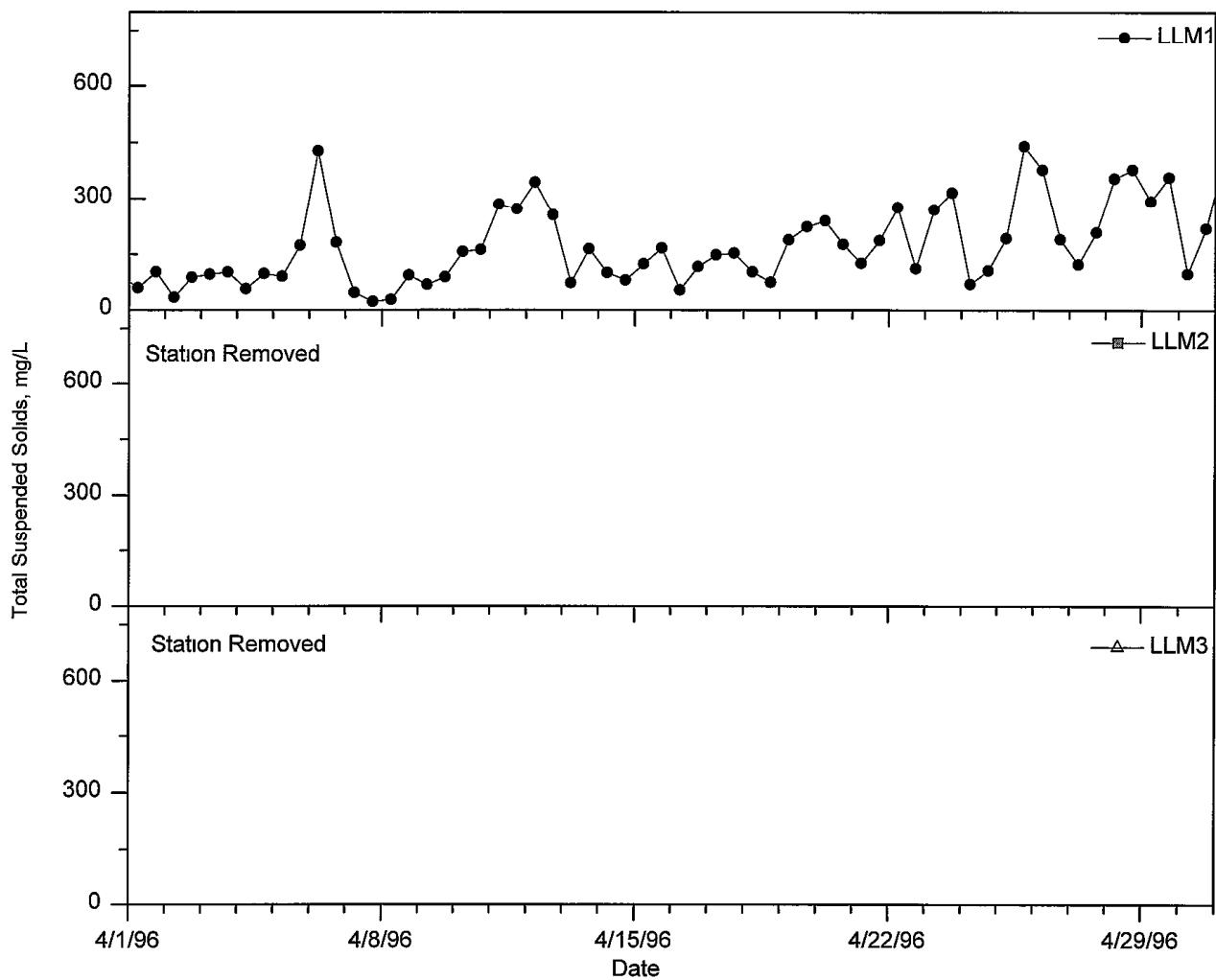
Total Suspended Solids in Lower Laguna Madre

March, 1996



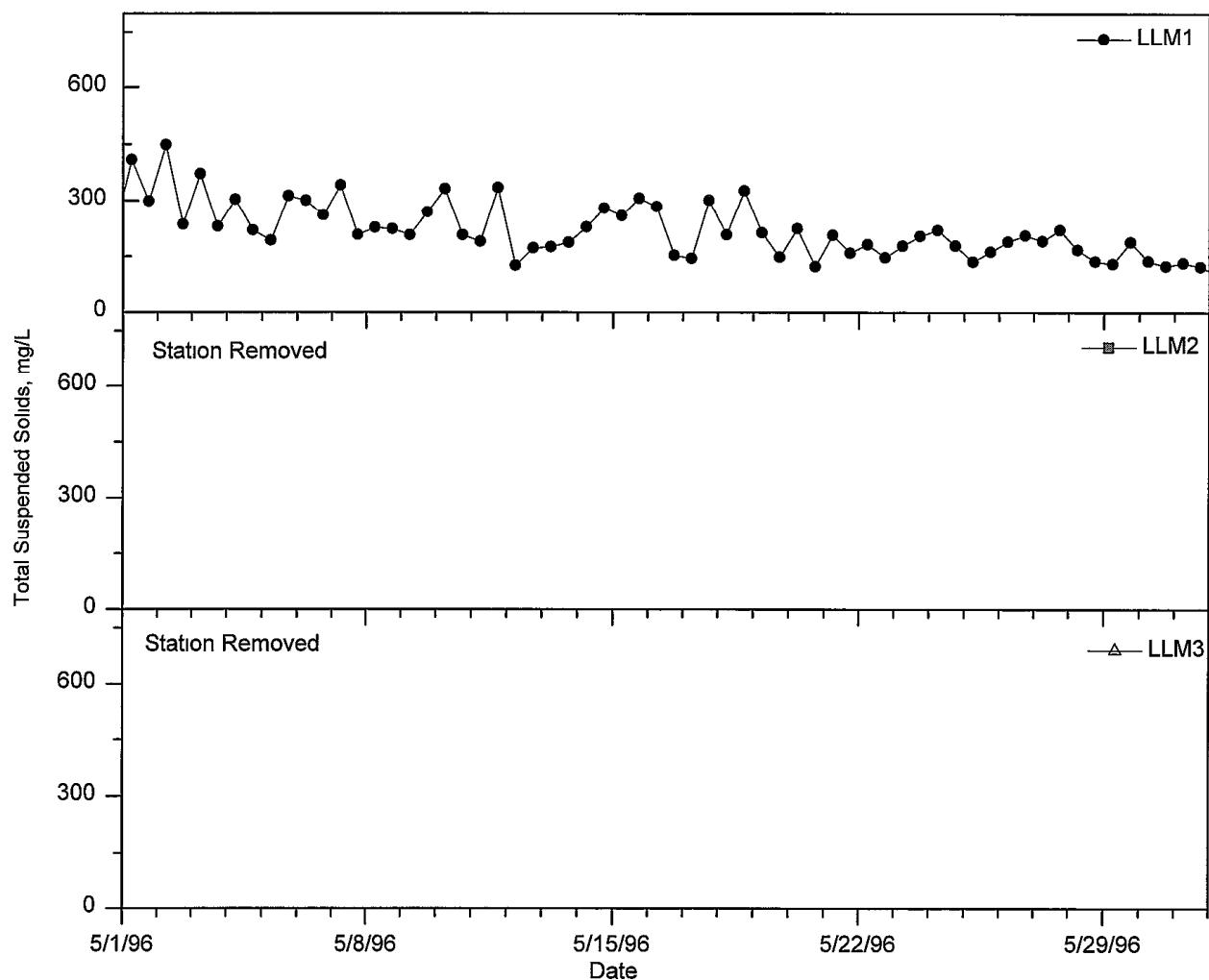
Total Suspended Solids in Lower Laguna Madre

April, 1996



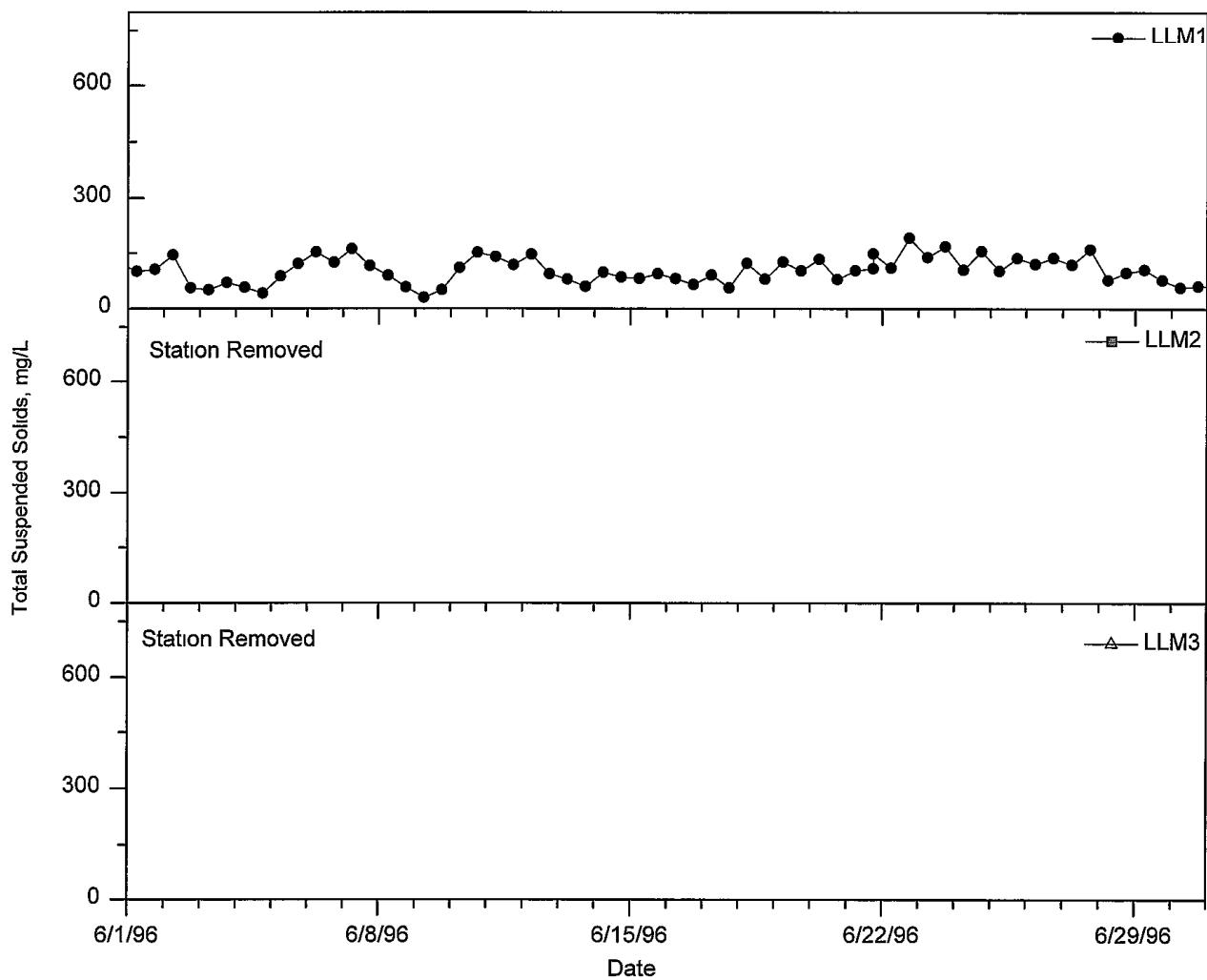
Total Suspended Solids in Lower Laguna Madre

May, 1996



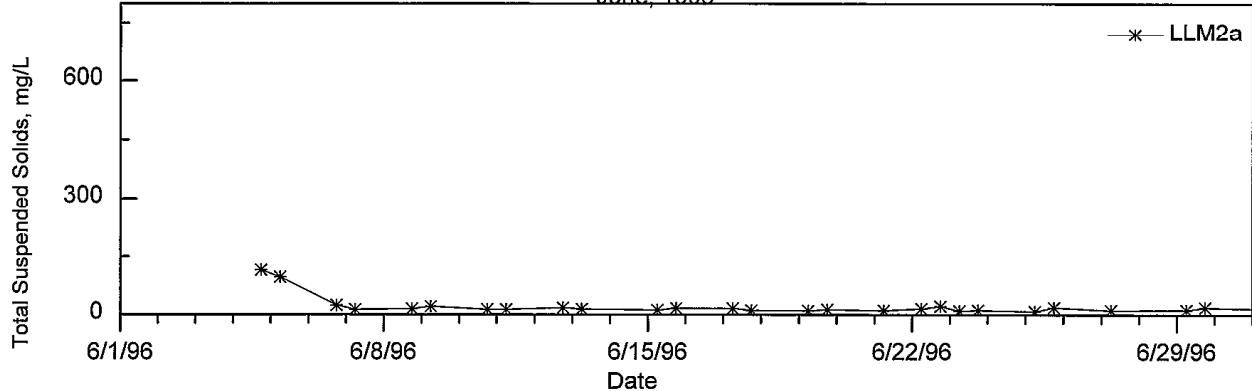
Total Suspended Solids in Lower Laguna Madre

June, 1996



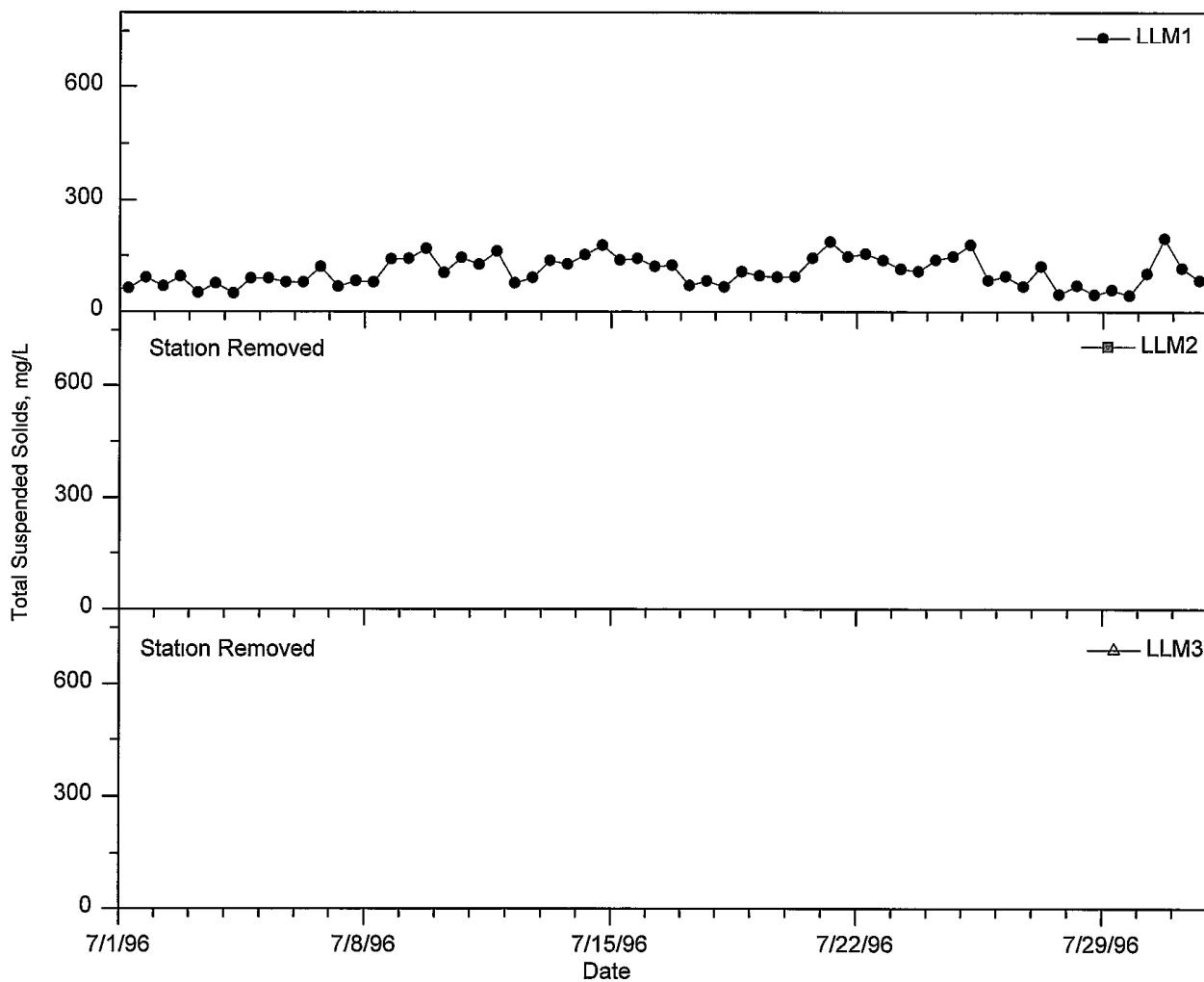
Total Suspended Solids in Lower Laguna Madre

June, 1996



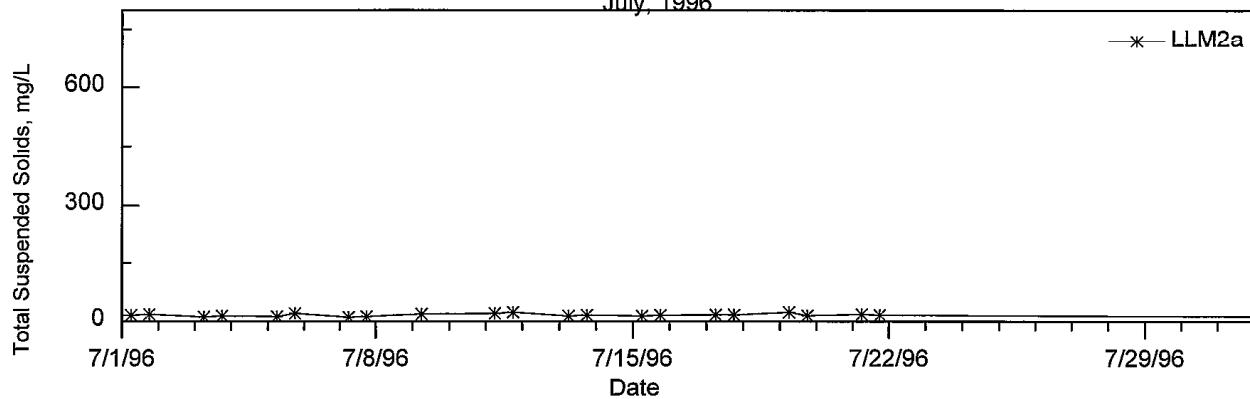
Total Suspended Solids in Lower Laguna Madre

July, 1996



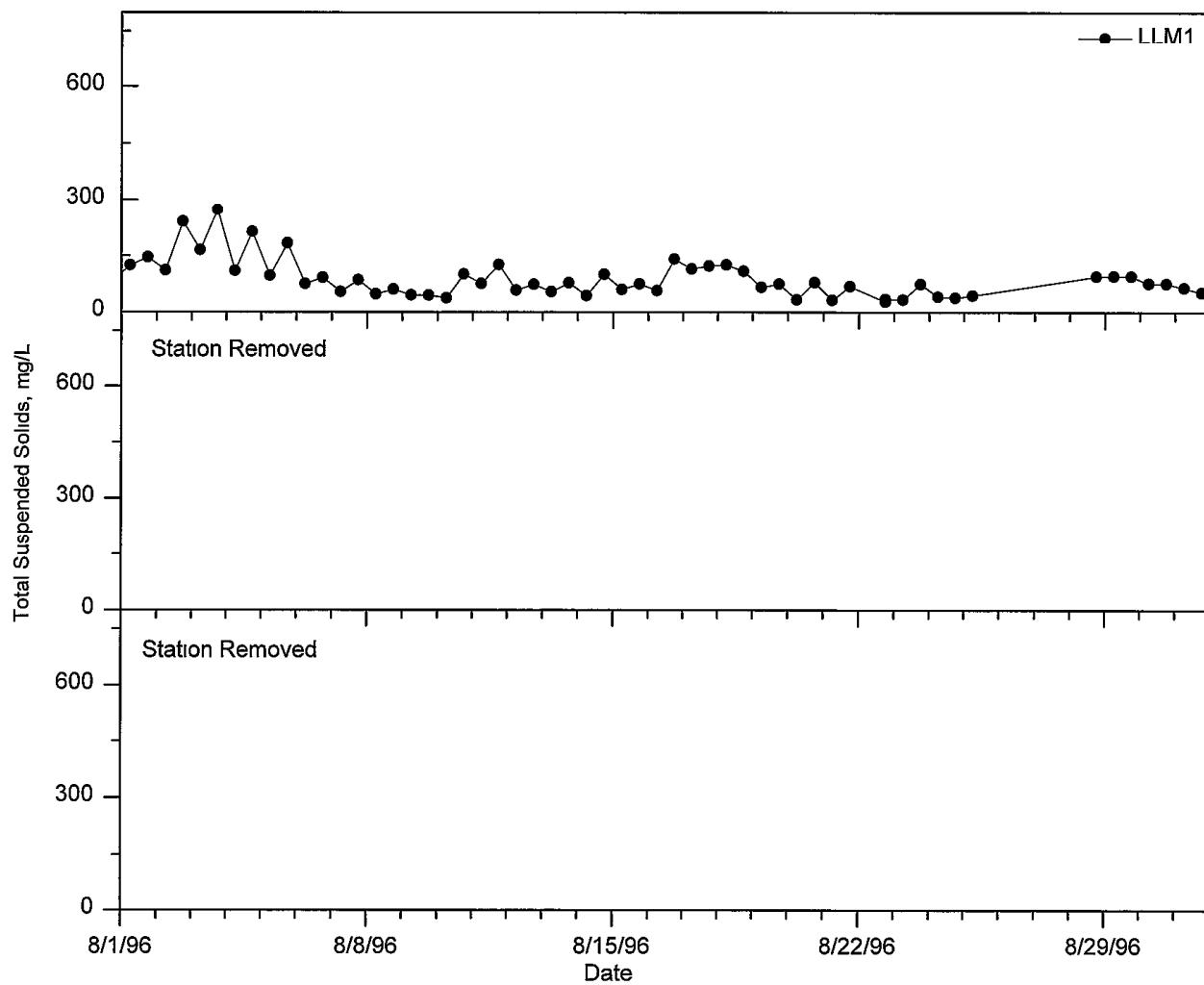
Total Suspended Solids in Lower Laguna Madre

July, 1996



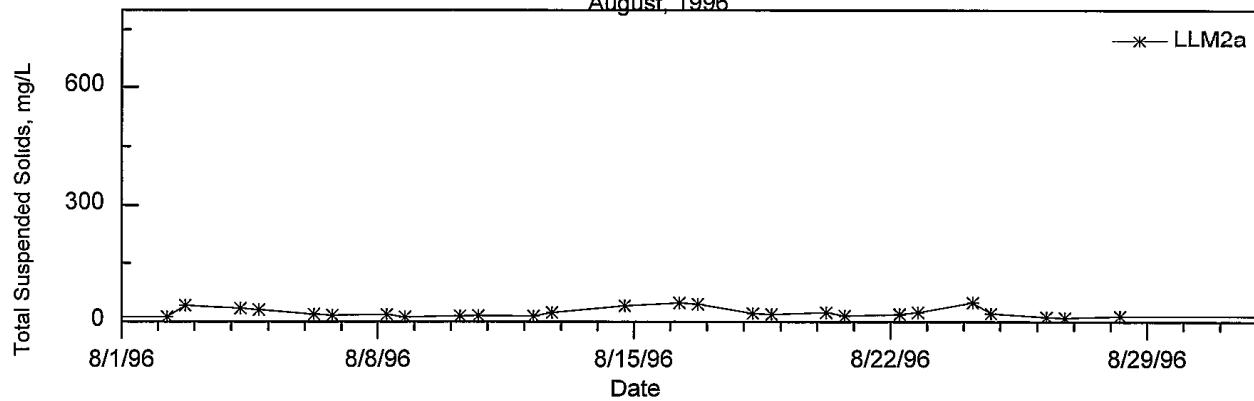
Total Suspended Solids in Lower Laguna Madre

August, 1996



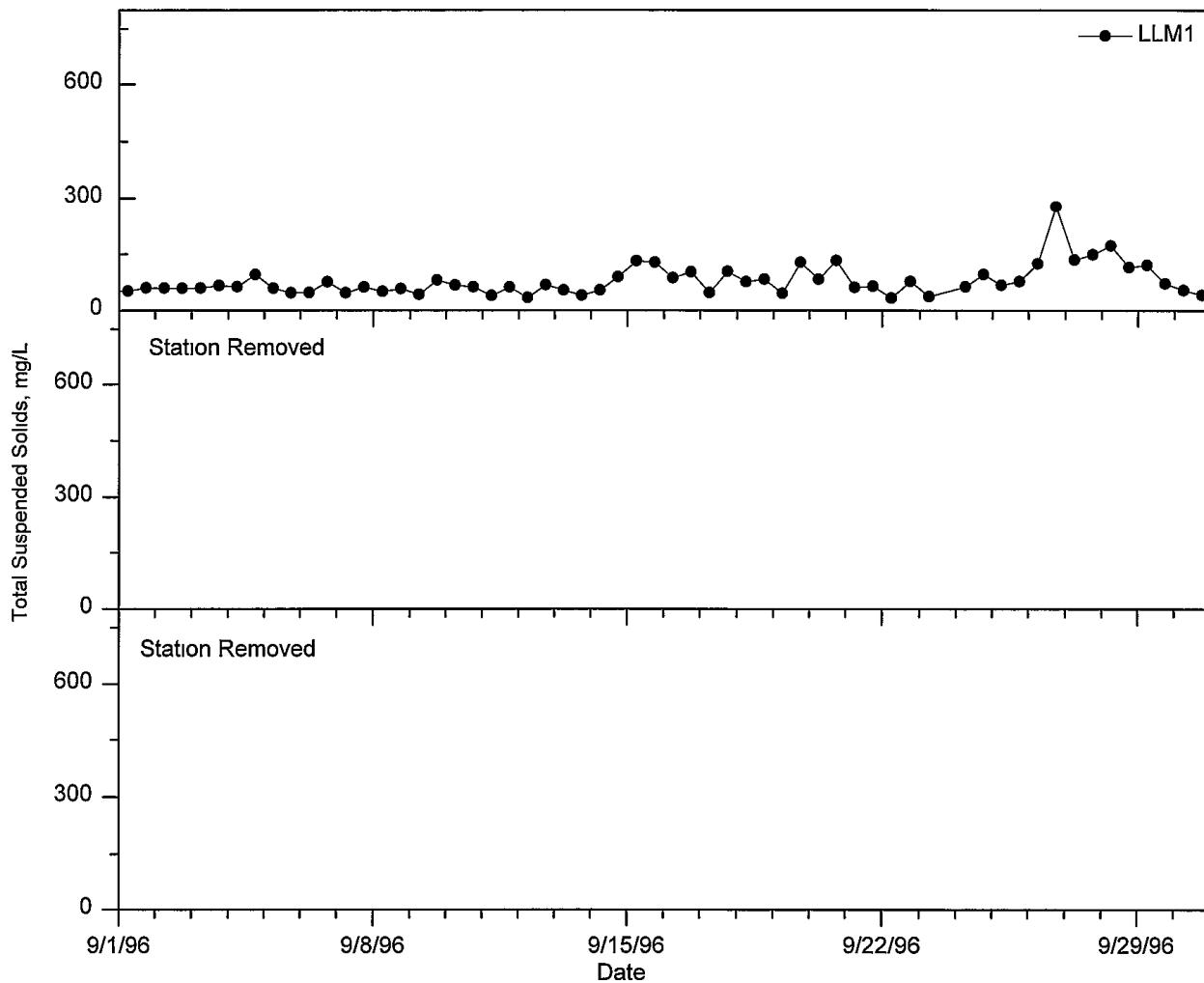
Total Suspended Solids in Lower Laguna Madre

August, 1996



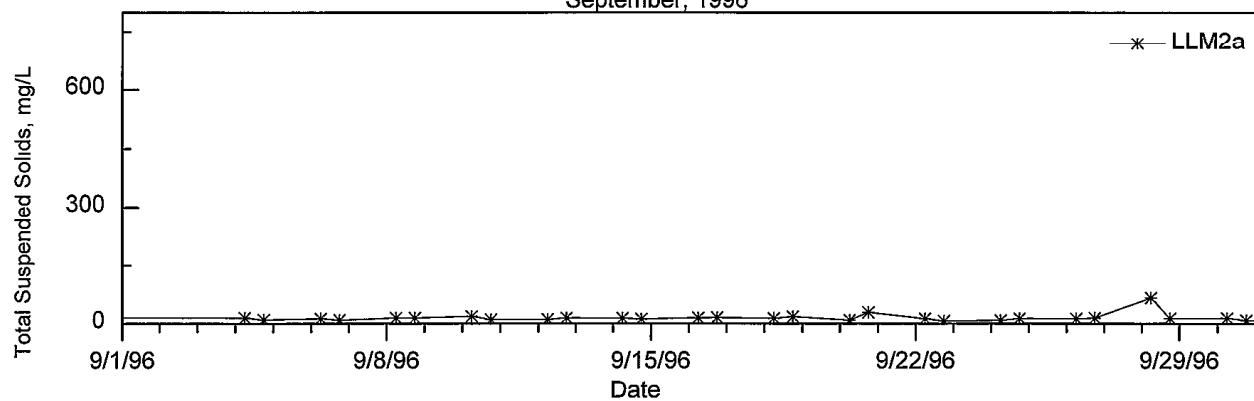
Total Suspended Solids in Lower Laguna Madre

September, 1996



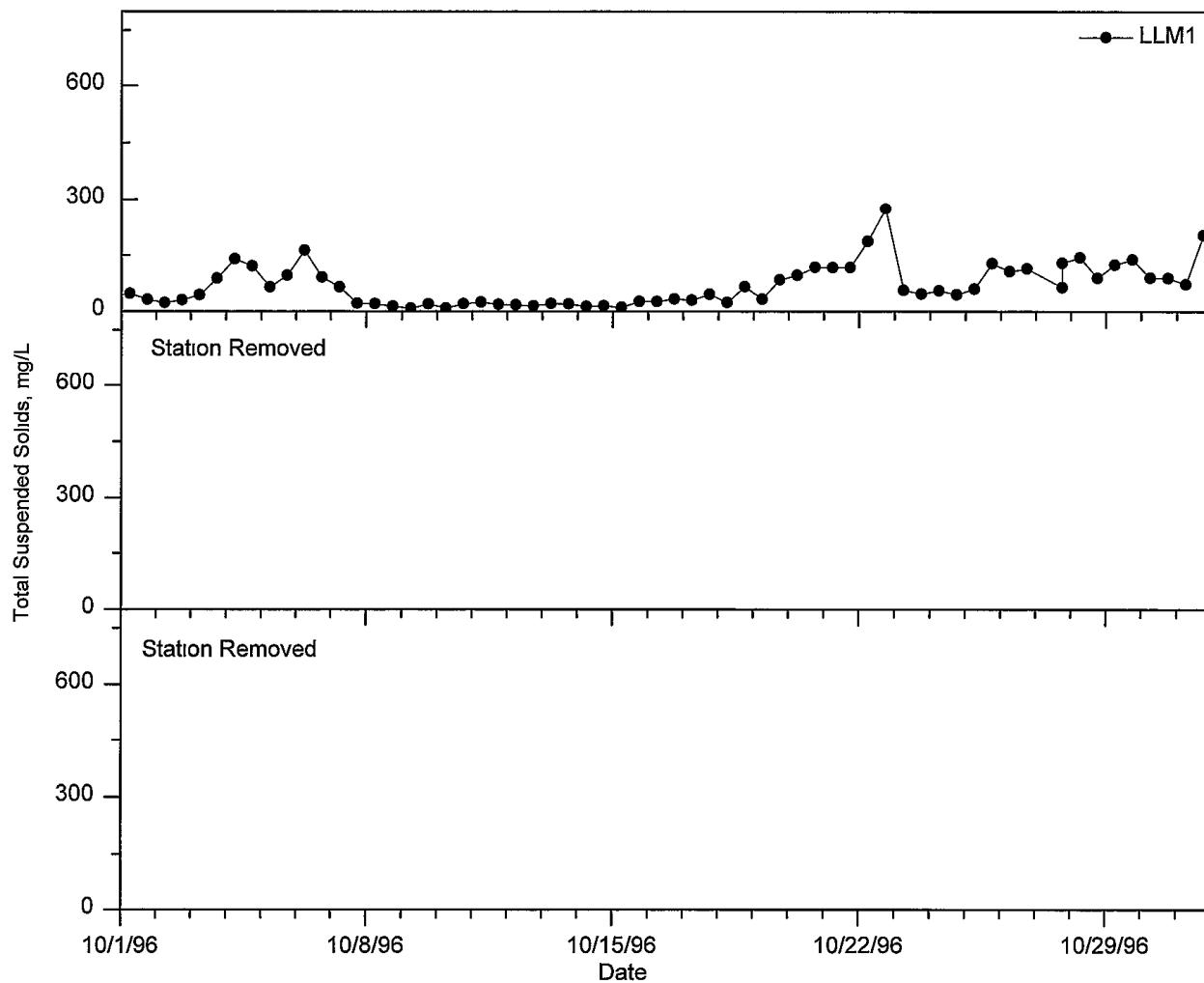
Total Suspended Solids in Lower Laguna Madre

September, 1996



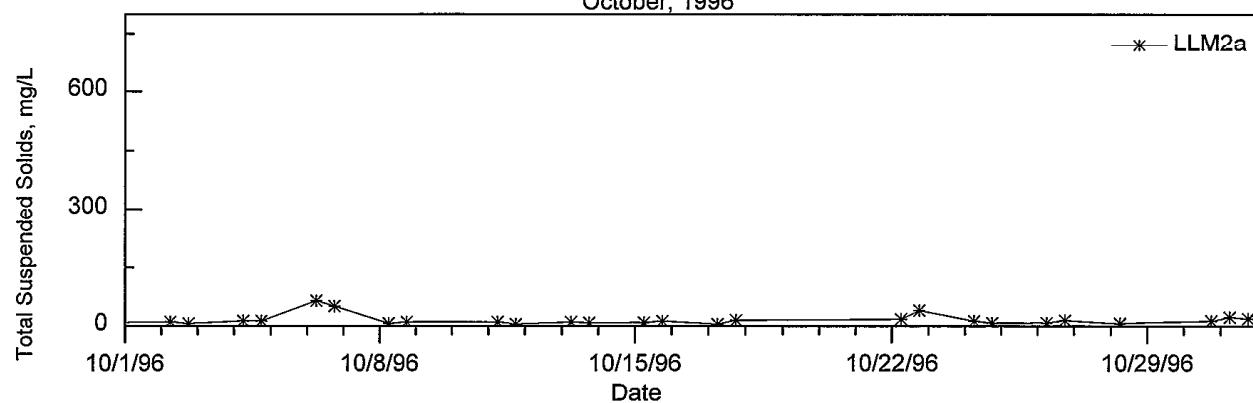
Total Suspended Solids in Lower Laguna Madre

October, 1996



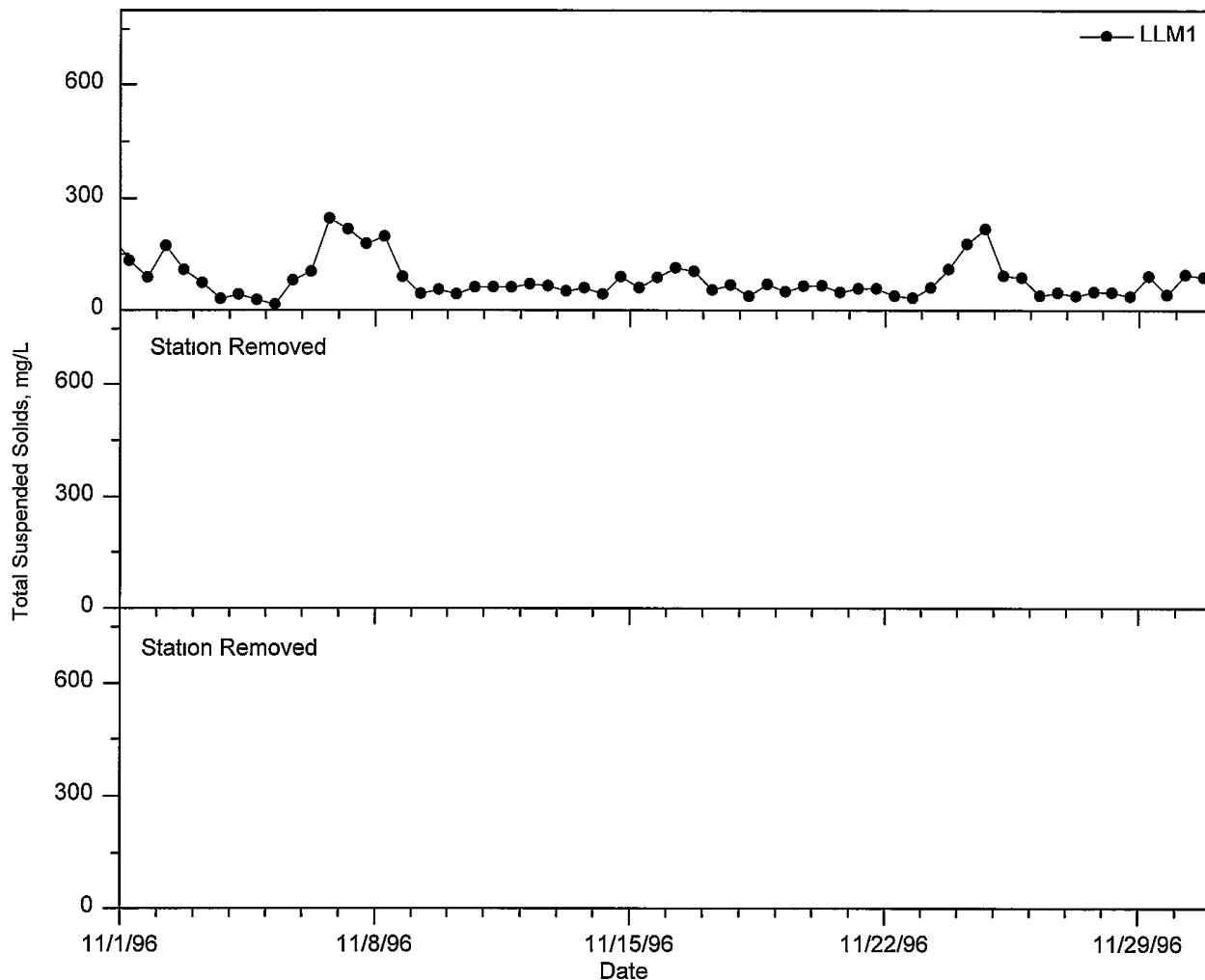
Total Suspended Solids in Lower Laguna Madre

October, 1996



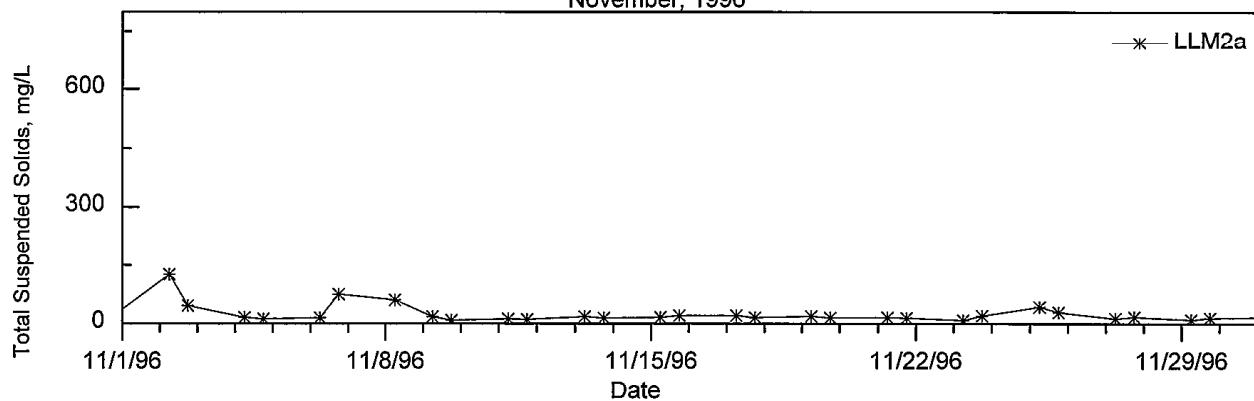
Total Suspended Solids in Lower Laguna Madre

November, 1996



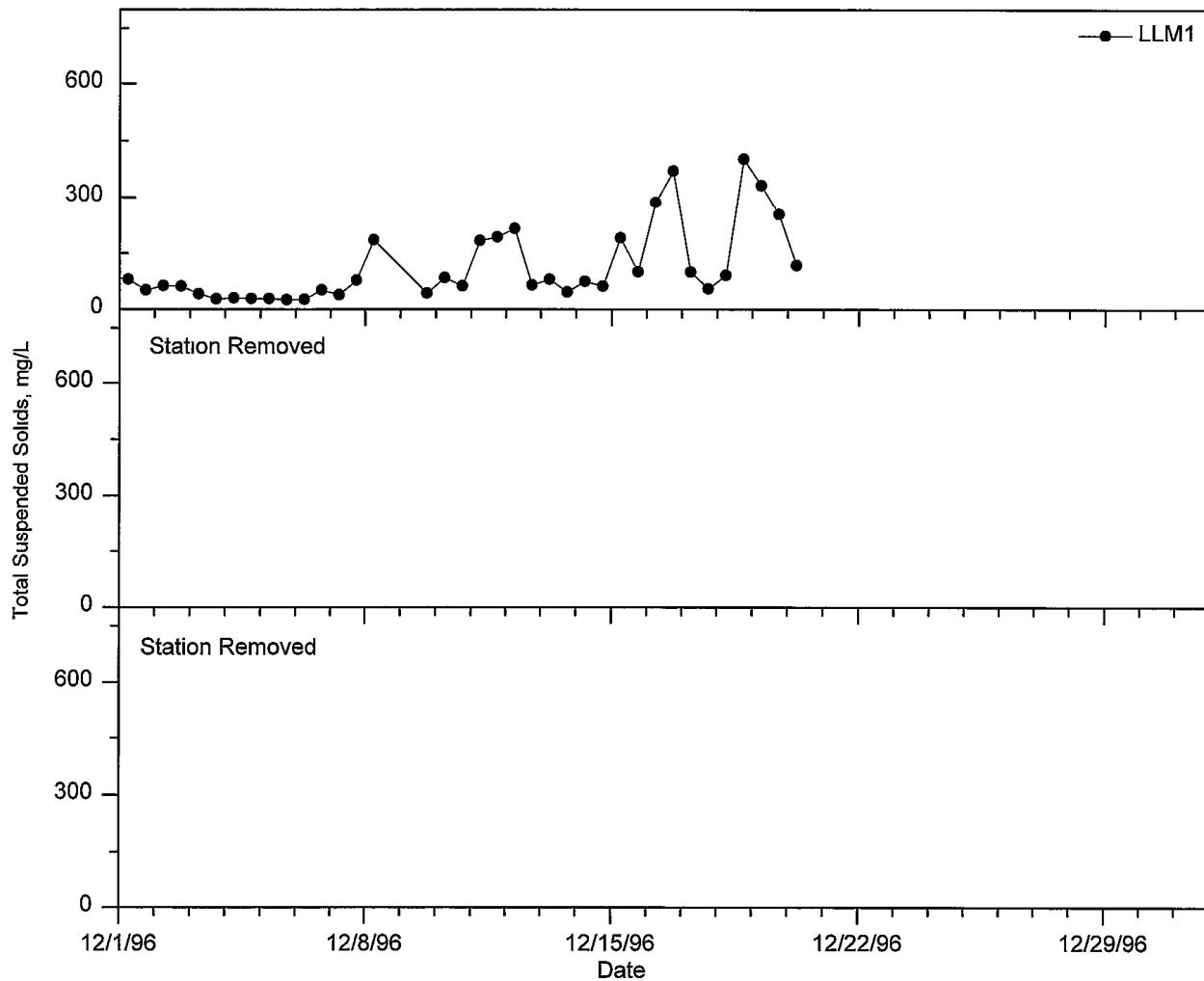
Total Suspended Solids in Lower Laguna Madre

November, 1996



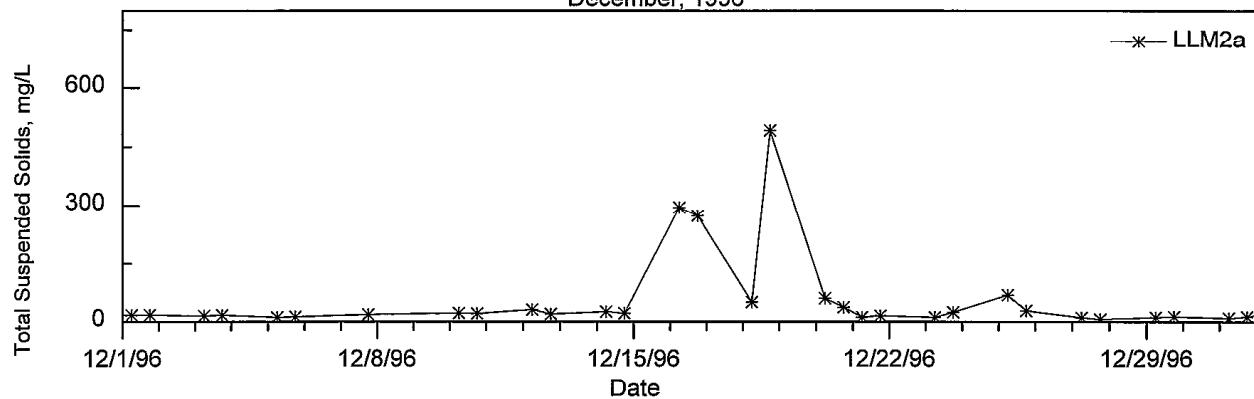
Total Suspended Solids in Lower Laguna Madre

December, 1996



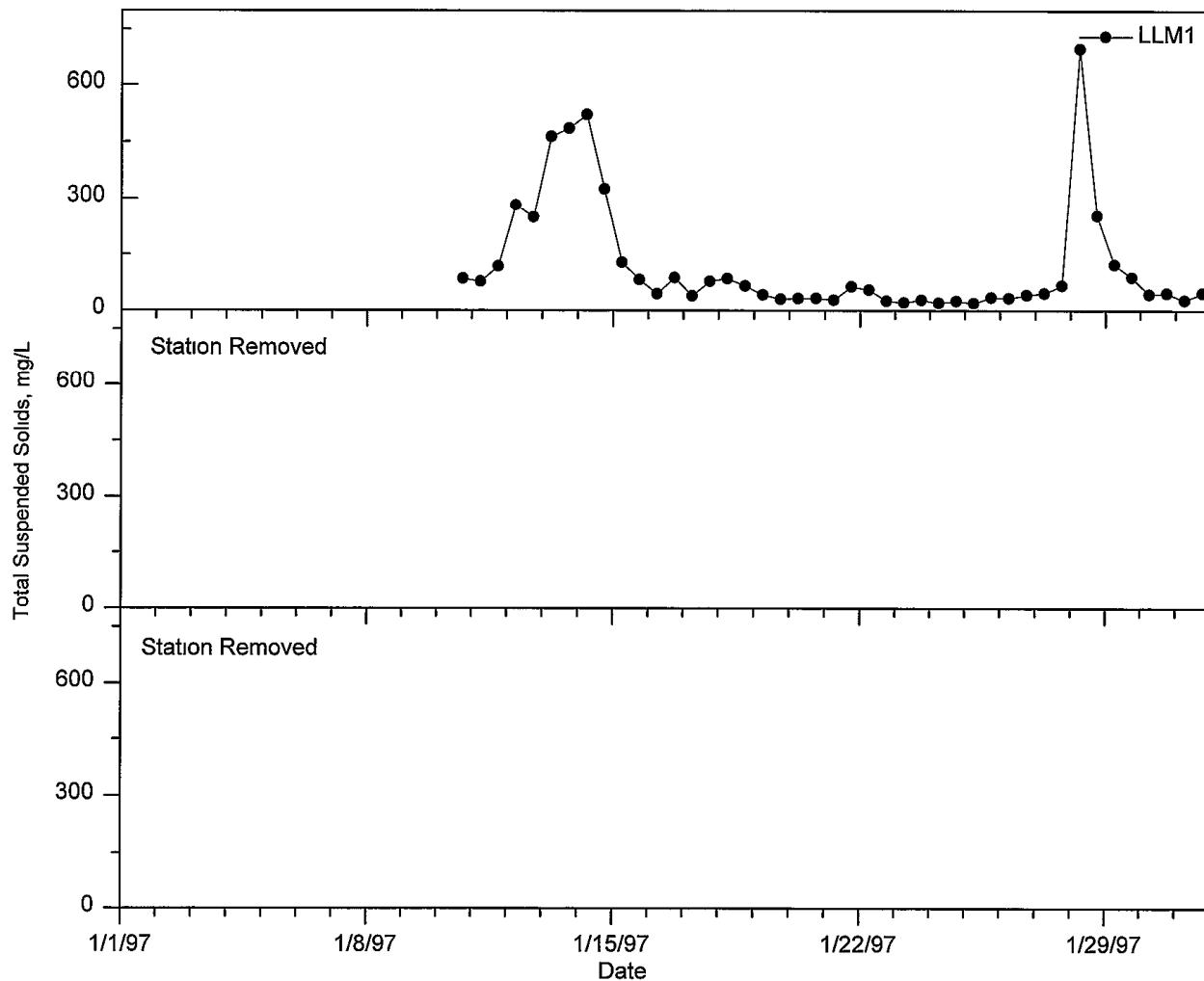
Total Suspended Solids in Lower Laguna Madre

December, 1996



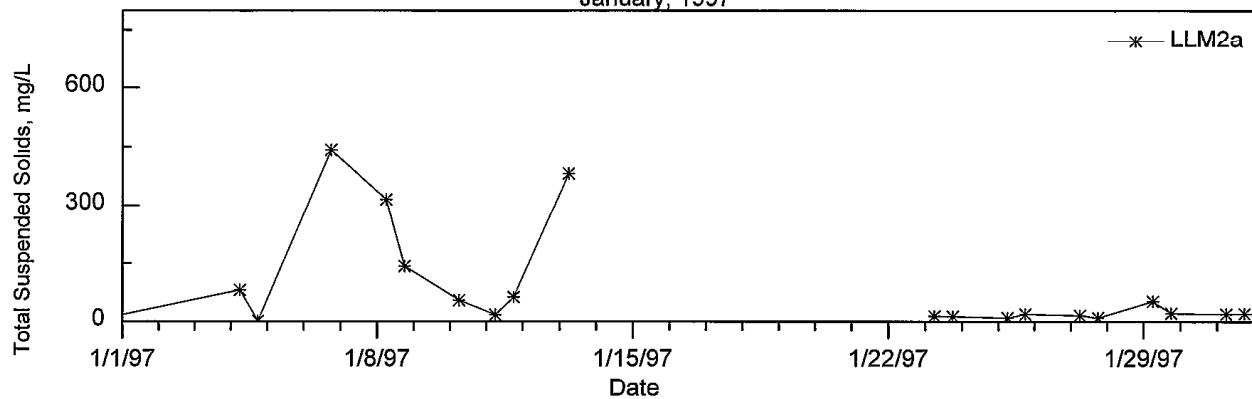
Total Suspended Solids in Lower Laguna Madre

January, 1997

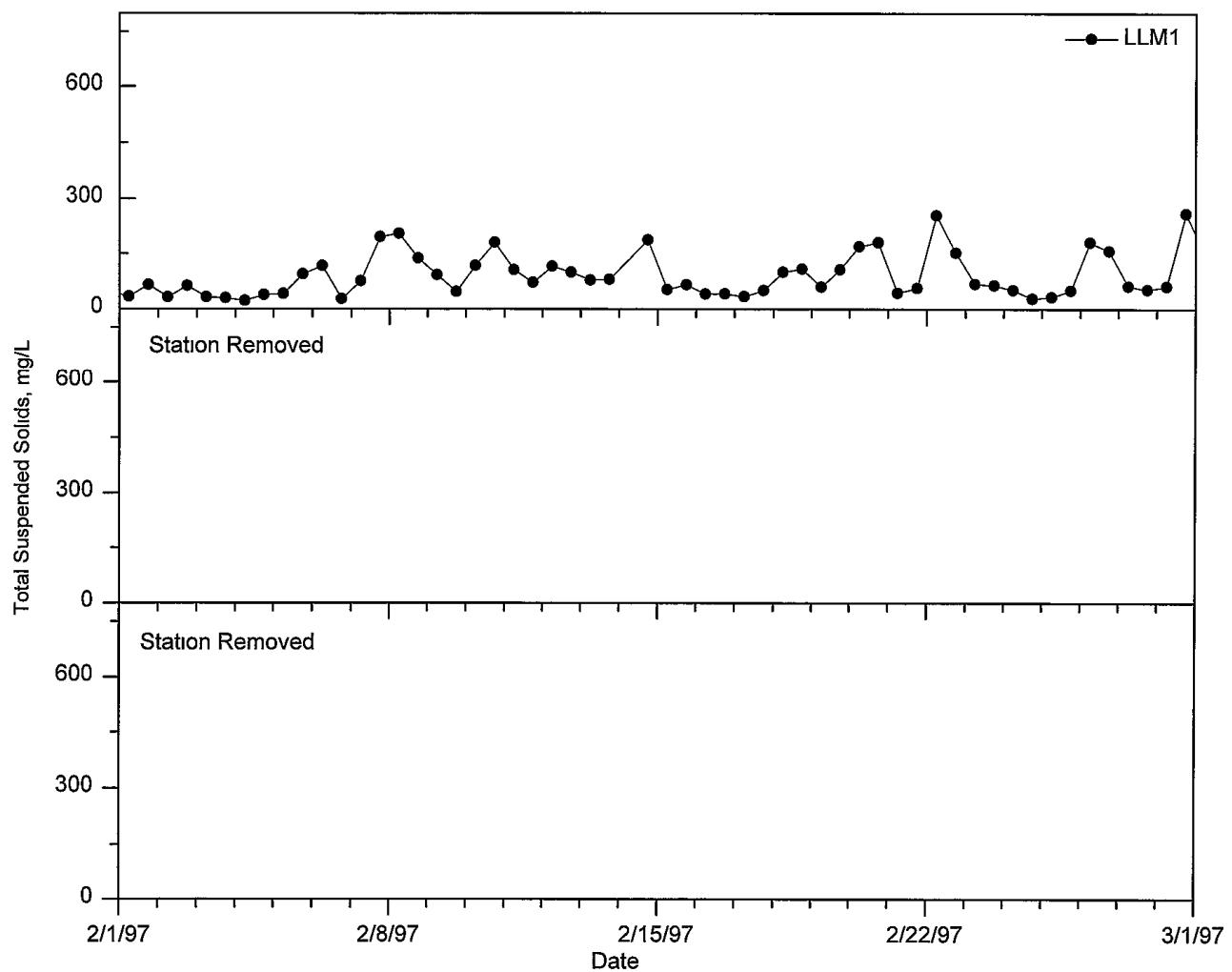


Total Suspended Solids in Lower Laguna Madre

January, 1997

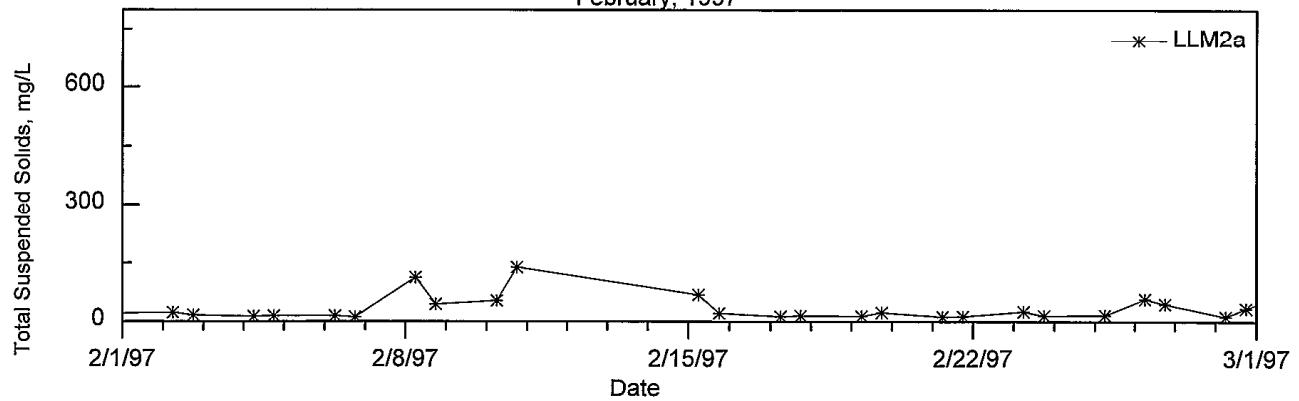


Total Suspended Solids in Lower Laguna Madre
February, 1997



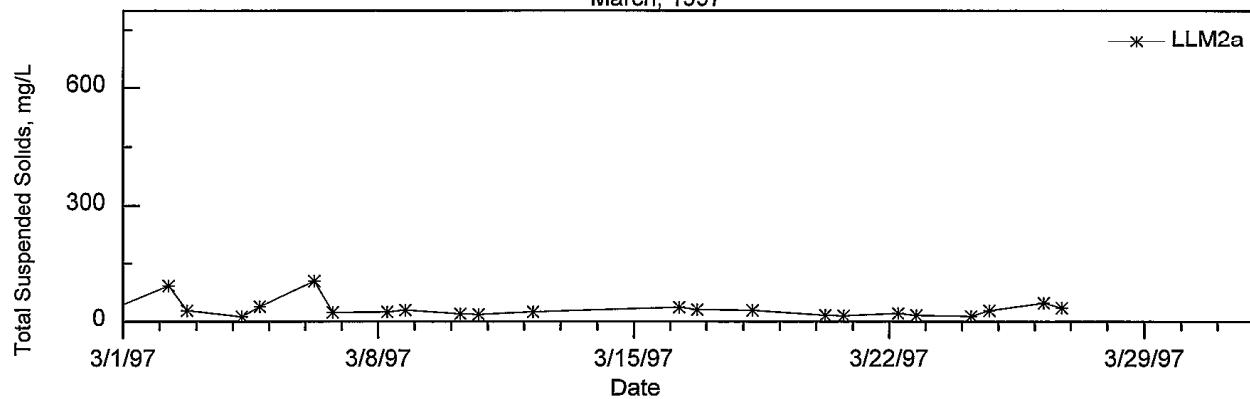
Total Suspended Solids in Lower Laguna Madre

February, 1997



Total Suspended Solids in Lower Laguna Madre

March, 1997



Chapter 3: TSS Data

LLM1TSS: Pg 1,1

	Date YYMMDD hhmm	TSS mg/L
1	940831 1800	126.60
2	940901 0600	185.90
3	940901 1800	47.33
4	940902 0600	102.60
5	940902 1800	26.20
6	940903 0600	43.83
7	940903 1800	38.30
8	940904 0600	137.30
9	940904 1800	45.67
10	940905 0600	24.60
11	940905 1800	81.00
12	940906 0600	63.83
13	940906 1800	47.90
14	940907 0600	102.80
15	940907 1800	46.00
16	940908 0600	122.80
17	940908 1800	104.00
18	940909 0600	46.33
19	940914 0600	132.40
20	940915 0600	92.20
21	940915 1800	97.20
22	940916 0600	57.60
23	940916 1800	37.20
24	940917 0600	42.40
25	940917 1800	21.20
26	940919 1800	40.00
27	940920 0600	29.00
28	940920 1800	55.60
29	940921 1800	47.40
30	940922 0600	166.00
31	940922 1800	45.00
32	940923 0600	171.60
33	940923 1800	84.80
34	940924 0600	48.80
35	940924 1800	173.60
36	940925 0600	80.60
37	940925 1800	109.80
38	940926 0600	184.00
39	940926 1800	70.80
40	940927 0600	111.60
41	940927 1800	47.40
42	940928 0600	117.20
43	940928 1800	84.80
44	940929 0600	91.20
45	940929 1800	31.00
46	940930 0600	94.00
47	940930 1800	42.40
48	941001 0600	53.00
49	941001 1800	65.80
50	941002 0600	34.00
51	941002 1800	36.20
52	941003 0600	180.00
53	941003 1800	35.80
54	941004 0600	32.40
55	941004 1800	44.60
56	941005 0600	80.20
57	941006 1800	62.80
58	941007 0600	206.40
59	941007 1800	411.60
60	941008 0600	206.60
61	941008 1800	281.30
62	941009 0600	385.60
63	941009 1800	189.00
64	941013 1800	260.40
65	941014 0600	193.60
66	941014 1800	193.40
67	941015 0600	481.60
68	941015 1800	261.60
69	941016 0600	134.20
70	941016 1800	362.00
71	941017 0600	256.00
72	941017 1800	178.33
73	941018 0600	301.60
74	941018 1800	229.60
75	941019 0600	120.00
76	941019 1800	199.60
77	941020 0600	180.80
78	941020 1800	140.00
79	941021 0600	284.80
80	941021 1800	265.60
81	941022 0600	145.70
82	941022 1800	327.20
83	941023 0600	290.40
84	941023 1800	127.70
85	941024 0600	210.40

L1M1TSS: Pg 1,2

	Date YYMMDD hhmm	TSS mg/L
86	941024 1800	207 60
87	941025 0600	162 30
88	941028 1800	265 60
89	941029 0600	276 40
90	941030 1800	192 80
91	941031 0600	200 40
92	941031 1800	198 10
93	941101 0600	222 00
94	941101 1800	171 70
95	941102 0600	208 80
96	941102 1800	283 20
97	941103 0600	235 50
98	941103 1800	326 00
99	941104 0600	310 00
100	941104 1800	564 00
101	941105 0600	396 40
102	941105 1800	379 20
103	941106 0600	176 33
104	941106 1800	374 40
105	941107 0600	254 00
106	941107 1800	218 40
107	941108 0600	145 90
108	941108 1800	130 20
109	941109 0600	254 10
110	941109 1800	159 50
111	941110 0600	159 10
112	941110 1800	363 10
113	941111 0600	168 80
114	941111 1800	102 20
115	941112 0600	135 70
116	941112 1800	137 40
117	941113 0600	125 60
118	941113 1800	257 80
119	941114 0600	144 50
120	941114 1800	150 80
121	941115 0600	80 20
122	941115 1800	72 30
123	941116 0600	140 80
124	941116 1800	161 60
125	941117 0600	97 70
126	941117 1800	87 30
127	941118 1800	51 50
128	941119 0600	119 30
129	941119 1800	151 80
130	941120 0600	213 60
131	941120 1800	248 20
132	941121 0600	292 20
133	941121 1800	132 80
134	941122 0600	167 60
135	941122 1800	170 60
136	941123 0600	231 40
137	941123 1800	97 00
138	941124 0600	439 80
139	941124 1800	367 40
140	941125 0600	149 60
141	941125 1800	85 60
142	941126 0600	111 20
143	941126 1800	79 20
144	941127 0600	464 80
145	941127 1800	493 60
146	941128 0600	341 60
147	941128 1800	311 60
148	941130 1800	276 80
149	941201 0600	233 80
150	941201 1800	85 60
151	941202 1800	95 60
152	941203 0600	98 80
153	941203 1800	45 40
154	941204 0600	54 20
155	941204 1800	40 00
156	941205 0600	77 00
157	941205 1800	98 60
158	941206 0600	149 80
159	941206 1800	202 00
160	941207 0600	469 55
161	941207 1800	217 25
162	941208 0600	220 29
163	941208 1800	117 40
164	941209 0600	403 50
165	941209 1800	205 60
166	941210 0600	205 20
167	941210 1800	380 40
168	941211 0600	112 20
169	941211 1800	348 70
170	941212 0600	297 30

LLM1TSS: Pg 1, 3

	Date YYMMDD hhmm	TSS mg/L
171	941212 1800	80 70
172	941213 0600	57 40
173	941213 1800	85 00
174	941214 0600	54 20
175	941214 1800	27 10
176	941215 0600	140 80
177	941215 1800	67 50
178	941216 0600	205 20
179	941217 0600	184 00
180	941217 1800	234 80
181	941218 0600	436 00
182	941218 1800	314 00
183	941219 0600	483 60
184	941219 1800	208 40
185	941220 0600	207 60
186	941220 1800	172 00
187	941221 0600	166 00
188	941221 1800	135 20
189	941222 0600	267 60
190	941222 1800	206 80
191	941223 0600	230 00
192	941223 1800	242 40
193	941224 0600	248 40
194	941224 1800	155 20
195	941225 0600	194 00
196	941225 1800	174 40
197	941226 0600	152 00
198	941226 1800	161 20
199	941227 0600	172 40
200	941228 1800	188 80
201	941229 0600	228 00
202	941230 0600	169 20
203	941230 1800	196 80
204	941231 1800	300 00
205	950101 0600	218 00
206	950102 0600	261 20
207	950102 1800	522 40
208	950103 1800	248 80
209	950104 0600	318 00
210	950105 0600	345 60
211	950105 1800	542 40
212	950106 1800	295 20
213	950107 0600	212 80
214	950107 1800	188 00
215	950108 0600	176 40
216	950108 1800	142 00
217	950109 0600	182 40
218	950109 1800	144 40
219	950110 0600	187 20
220	950110 1800	174 00
221	950111 0600	188 00
222	950111 1800	192 80
223	950112 0600	184 40
224	950112 1800	220 80
225	950113 0600	288 40
226	950113 1800	189 20
227	950114 0600	231 20
228	950114 1800	203 20
229	950115 0600	220 80
230	950115 1800	194 40
231	950116 0600	184 40
232	950116 1800	266 80
233	950117 0600	561 60
234	950117 1800	314 80
235	950118 0600	307 60
236	950119 1800	209 90
237	950120 0600	174 80
238	950120 1800	128 00
239	950121 0600	59 80
240	950121 1800	145 20
241	950122 0600	142 40
242	950122 1800	104 00
243	950123 0600	148 80
244	950123 1800	1832 00
245	950124 0600	397 20
246	950124 1800	142 80
247	950125 0600	134 40
248	950125 1800	207 20
249	950126 0600	108 40
250	950126 1800	214 80
251	950127 0600	181 60
252	950127 1800	213 20
253	950128 0600	98 00
254	950128 1800	67 80
255	950129 0600	103 60

LLM1TSS: Pg 1, 4

	Date YYMMDD hhmm	TSS mg/L
256	950129 1800	108 00
257	950130 0600	298 40
258	950131 1800	463 60
259	950201 0600	207 20
260	950201 1800	186 80
261	950202 0600	100 00
262	950202 1800	190 00
263	950203 0600	56 00
264	950203 1800	120 75
265	950204 0600	271 60
266	950204 1800	321 20
267	950205 0600	154 80
268	950205 1800	234 00
269	950206 1800	213 20
270	950207 0600	184 80
271	950207 1800	160 00
272	950208 0600	107 50
273	950208 1800	497 20
274	950209 0600	190 80
275	950209 1800	140 00
276	950210 0600	94 80
277	950210 1800	197 67
278	950211 0600	175 33
279	950211 1800	212 80
280	950214 1800	192 00
281	950215 0600	135 60
282	950215 1800	77 60
283	950220 1800	126 00
284	950221 0600	63 80
285	950221 1800	65 00
286	950222 0600	65 80
287	950222 1800	73 40
288	950223 0600	119 80
289	950223 1800	253 20
290	950224 0600	95 75
291	950224 1800	116 25
292	950225 1800	128 80
293	950226 0600	147 60
294	950226 1800	150 80
295	950227 0600	295 60
296	950227 1800	164 00
297	950228 0600	184 33
298	950228 1800	100 00
299	950301 0600	223 20
300	950301 1800	429 60
301	950302 0600	277 60
302	950302 1800	134 40
303	950303 0600	206 00
304	950303 1800	243 20
305	950304 0600	322 00
306	950304 1800	182 00
307	950305 0600	105 00
308	950305 1800	50 33
309	950306 0600	52 80
310	950306 1800	54 00
311	950307 0600	106 67
312	950307 1800	85 60
313	950308 1800	524 80
314	950309 0600	402 80
315	950309 1800	78 80
316	950310 0600	63 20
317	950310 1800	52 80
318	950311 0600	88 00
319	950311 1800	67 67
320	950312 0600	52 40
321	950312 1800	172 40
322	950313 0600	139 20
323	950313 1800	151 60
324	950314 0600	150 80
325	950314 1800	144 00
326	950315 1800	123 33
327	950316 0600	159 20
328	950316 1800	105 00
329	950317 1800	106 33
330	950318 0600	176 00
331	950318 1800	99 00
332	950319 0600	57 67
333	950319 1800	123 20
334	950320 0600	145 60
335	950320 1800	246 80
336	950321 0600	278 00
337	950321 1800	223 20
338	950322 0600	216 80
339	950322 1800	321 20
340	950323 0600	284 40

LLM1TSS: Pg 1, 5

	Date YYMMDD hhmm	TSS mg/L
341	950324 0600	79 25
342	950324 1800	174 00
343	950325 0600	264 00
344	950325 1800	275 20
345	950327 0600	394 00
346	950327 1800	186 40
347	950328 0600	176 80
348	950329 0600	242 80
349	950329 1800	176 40
350	950330 0600	304 40
351	950330 1800	266 40
352	950331 0600	194 40
353	950331 1800	192 40
354	950401 0600	188 00
355	950401 1800	138 00
356	950402 0600	194 00
357	950402 1800	109 20
358	950403 0600	181 60
359	950403 1800	222 00
360	950404 0600	215 20
361	950404 1800	226 00
362	950405 0600	158 00
363	950405 1800	167 20
364	950426 0600	114 00
365	950426 1800	76 75
366	950427 0600	152 85
367	950428 0600	82 80
368	950429 0600	177 75
369	950429 1800	328 00
370	950430 0600	224 00
371	950430 1800	275 20
372	950501 0600	342 80
373	950501 1800	272 00
374	950502 0600	213 60
375	950502 1800	150 60
376	950503 0600	165 20
377	950503 1800	98 80
378	950504 0600	132 80
379	950504 1800	181 60
380	950505 0600	143 25
381	950505 1800	59 80
382	950506 0600	202 00
383	950506 1800	141 60
384	950507 0600	270 00
385	950507 1800	277 60
386	950518 0600	105 20
387	950519 0600	264 40
388	950519 1800	226 40
389	950520 0600	92 00
390	950520 1800	151 00
391	950521 0600	144 00
392	950521 1800	164 30
393	950522 0600	186 70
394	950522 1800	154 80
395	950523 0600	242 80
396	950523 1800	282 80
397	950524 0600	242 00
398	950524 1800	288 80
399	950525 0600	265 00
400	950525 1800	194 40
401	950526 0600	113 30
402	950526 1800	187 20
403	950527 0600	245 20
404	950527 1800	186 80
405	950528 0600	151 60
406	950528 1800	198 80
407	950529 0600	225 60
408	950529 1800	185 60
409	950530 0600	183 20
410	950530 1800	230 40
411	950531 0600	292 00
412	950531 1800	150 00
413	950601 0600	178 00
414	950601 1800	226 80
415	950602 0600	242 40
416	950602 1800	231 60
417	950603 0600	238 00
418	950603 1800	284 80
419	950604 0600	234 80
420	950604 1800	212 40
421	950605 0600	182 00
422	950605 1800	224 00
423	950606 0600	252 80
424	950606 1800	326 40
425	950607 0600	212 00

LLM1TSS: Pg 1,6

	Date YYMMDD hhmm	TSS mg/L
426	950607 1800	249 20
427	950608 0600	216 80
428	950608 1800	180 80
429	950609 0600	215 60
430	950609 1800	168 40
431	950610 0600	211 20
432	950610 1000	171 60
433	950611 0500	200 00
434	950611 1800	261 20
435	950612 0500	64 60
436	950612 1800	160 70
437	950613 0600	86 60
438	950613 1800	58 20
439	950614 0600	86 80
440	950614 1800	78 30
441	950615 0600	131 30
442	950615 1800	152 00
443	950616 0600	123 40
444	950616 1800	127 50
445	950617 0600	106 00
446	950617 1800	86 20
447	950618 0600	75 60
448	950618 1800	47 80
449	950619 0600	77 80
450	950619 1800	76 00
451	950620 0600	85 60
452	950620 1800	78 80
453	950621 0600	66 00
454	950621 1800	58 20
455	950622 0600	76 40
456	950622 1800	53 60
457	950623 0600	88 80
458	950623 1800	73 80
459	950624 0600	108 60
460	950624 1800	66 00
461	950625 0600	62 40
462	950625 1800	35 00
463	950626 0600	66 20
464	950626 1800	64 60
465	950706 1800	283 60
466	950707 0600	95 80
467	950707 1800	85 20
468	950708 0600	77 20
469	950708 1800	58 00
470	950709 0500	60 60
471	950709 1800	57 40
472	950710 0500	113 60
473	950710 1800	74 60
474	950711 0500	114 80
475	950711 1800	53 60
476	950712 0500	134 40
477	950712 1800	87 20
478	950713 0500	117 40
479	950713 1800	94 00
480	950714 0500	96 20
481	950714 1800	85 60
482	950715 0500	110 00
483	950715 1800	106 30
484	950716 0500	164 70
485	950716 1800	122 40
486	950717 0500	148 70
487	950717 1800	77 80
488	950718 0500	98 50
489	950718 1800	103 70
490	950719 0500	156 40
491	950719 1800	196 80
492	950720 0500	209 20
493	950720 1800	260 40
494	950721 0500	286 00
495	950721 1800	297 20
496	950722 0500	292 80
497	950722 1800	255 20
498	950723 0500	327 20
499	950723 1800	310 40
500	950724 0500	277 20
501	950724 1800	227 20
502	950725 0500	217 60
503	950725 1800	176 70
504	950726 0500	170 70
505	950726 1800	129 00
506	950727 0500	193 30
507	950727 1800	130 00
508	950728 0500	121 33
509	950728 1800	177 33
510	950729 1800	92 00

LLM1TSS: Pg 1,7

	Date YYMMDD hhmm	TSS mg/L
511	950730 0600	78 33
512	950730 1800	114 67
513	950801 0600	181 33
514	950801 1800	176 00
515	950802 0600	81 00
516	950802 1800	102 00
517	950803 0600	102 33
518	950805 0600	33 00
519	950805 1800	110 00
520	950806 0600	30 60
521	950806 1800	30 80
522	950807 0600	34 20
523	950814 0600	146 00
524	950814 1800	103 67
525	950815 0600	104 33
526	950815 1800	101 67
527	950818 1800	34 67
528	950819 0600	42 67
529	950819 1800	28 67
530	950820 0600	48 00
531	950820 1800	38 67
532	950821 0600	54 33
533	950821 1800	56 00
534	950822 0600	52 00
535	950822 1800	31 00
536	950823 0600	29 33
537	950823 1800	25 00
538	950824 0600	52 00
539	950824 1800	42 33
540	950825 0600	40 33
541	950825 1800	43 67
542	950826 0600	43 00
543	950826 1800	50 67
544	950827 0600	58 33
545	950827 1800	48 33
546	950828 0600	43 00
547	950828 1800	49 00
548	950829 0600	68 00
549	950829 1800	31 67
550	950830 0600	22 80
551	950830 1800	16 20
552	950831 0600	39 40
553	950831 1800	24 20
554	950901 0600	34 40
555	950901 1800	23 80
556	950902 0600	27 20
557	950902 1800	26 40
558	950903 0600	28 80
559	950903 1800	28 00
560	950904 0600	34 80
561	950904 1800	29 40
562	950905 0600	46 67
563	950905 1800	26 67
564	950906 0600	38 67
565	950906 1800	36 00
566	950907 0600	32 33
567	950907 1800	26 33
568	950908 0600	22 80
569	950908 1800	33 00
570	950909 0600	17 20
571	950909 1800	26 20
572	950910 0600	42 40
573	950910 1800	29 60
574	950911 0600	30 80
575	950911 1800	29 60
576	950912 0600	44 00
577	950912 1800	25 20
578	950913 0600	37 60
579	950913 1800	38 40
580	950914 0600	27 20
581	950914 1800	28 80
582	950915 0600	45 60
583	950915 1800	33 80
584	950916 0600	42 60
585	950916 1800	32 20
586	950917 0600	46 00
587	950917 1800	30 00
588	950918 0600	50 60
589	950918 1800	33 40
590	950919 0600	41 40
591	950919 1800	21 20
592	950925 1800	57 33
593	950926 0600	23 00
594	950926 1800	43 00
595	950927 0600	21 40

LLM1TSS: Pg 1, 8

	Date YYMMDD hhmm	TSS mg/L
596	950927 1800	26 20
597	950928 0600	34 20
598	950928 1800	22 20
599	950929 0600	29 80
600	950929 1800	28 20
601	950930 0600	64 60
602	950930 1800	36 20
603	951001 0600	21 00
604	951001 1800	43 33
605	951002 0600	42 67
606	951002 1800	19 33
607	951003 0600	45 33
608	951003 1800	57 67
609	951004 0600	34 67
610	951004 1800	26 67
611	951005 0600	26 00
612	951005 1800	30 33
613	951006 0600	47 00
614	951006 1800	50 00
615	951007 0600	27 67
616	951007 1800	25 00
617	951008 0600	16 00
618	951008 1800	31 67
619	951009 0600	26 67
620	951009 1800	33 67
621	951010 0600	21 00
622	951010 1800	20 33
623	951011 0600	21 67
624	951011 1800	34 67
625	951012 0600	55 67
626	951012 1800	41 00
627	951013 0600	51 33
628	951013 1800	50 33
629	951014 0600	57 00
630	951021 1800	54 67
631	951022 0600	66 00
632	951022 1800	169 60
633	951023 0600	118 80
634	951023 1800	52 00
635	951024 0600	24 67
636	951024 1800	74 80
637	951025 0600	44 00
638	951025 1800	38 67
639	951026 0600	39 00
640	951026 1800	91 20
641	951027 0600	78 80
642	951027 1800	62 00
643	951028 0600	36 67
644	951028 1800	86 80
645	951029 0600	167 33
646	951029 1800	89 60
647	951030 0600	48 00
648	951030 1800	31 33
649	951031 0600	35 20
650	951031 1800	45 20
651	951101 0600	66 00
652	951101 1800	120 67
653	951102 0600	73 00
654	951102 1800	110 00
655	951103 0600	178 33
656	951103 1800	357 20
657	951104 0600	176 00
658	951104 1800	102 33
659	951105 0600	296 80
660	951105 1800	83 67
661	951106 0600	68 67
662	951106 1800	63 00
663	951107 0600	67 00
664	951107 1800	45 33
665	951108 0600	67 67
666	951108 1800	60 33
667	951109 0600	65 67
668	951109 1800	72 00
669	951110 0600	78 00
670	951121 1800	42 33
671	951122 0600	22 33
672	951122 1800	29 33
673	951123 0600	21 67
674	951123 1800	21 33
675	951124 0600	79 33
676	951124 1800	44 67
677	951125 0600	19 67
678	951125 1800	13 33
679	951126 0600	31 33
680	951126 1800	109 13

LLM1TSS: Pg 1, 9

	Date YYMMDD hhmm	TSS mg/L
681	951127 0600	71 33
682	951127 1800	68 67
683	951128 0600	31 67
684	951128 1800	67 33
685	951129 0600	44 67
686	951129 1800	28 00
687	951130 0600	16 33
688	951130 1800	34 40
689	951201 0600	34 20
690	951201 1800	39 80
691	951202 0600	51 00
692	951202 1800	58 67
693	951203 0600	48 67
694	951203 1800	52 67
695	951204 0600	58 00
696	951204 1800	57 00
697	951205 0600	105 67
698	951205 1800	106 00
699	951206 0600	75 33
700	951206 1800	110 00
701	951207 0600	55 33
702	951207 1800	72 33
703	951208 0600	63 67
704	951208 1800	114 00
705	951209 0600	239 20
706	951209 1800	214 80
707	951210 0600	387 33
708	951210 1800	150 00
709	951211 0600	54 33
710	951211 1800	38 00
711	951212 0600	41 33
712	951212 1800	17 67
713	951213 0600	35 33
714	951213 1800	51 00
715	951214 0600	27 33
716	951214 1800	70 00
717	951215 0600	53 33
718	951215 1800	34 00
719	951216 0600	21 67
720	951216 1800	29 00
721	951217 0600	51 33
722	951217 1800	120 40
723	951218 0600	124 33
724	951218 1800	73 33
725	951219 0600	72 40
726	951219 1800	51 00
727	951220 0600	47 00
728	951220 1800	37 00
729	951221 0600	84 00
730	951221 1800	99 00
731	951222 0600	157 00
732	951222 1800	206 00
733	951223 0600	142 00
734	951223 0600	111 00
735	951224 0600	120 33
736	951224 1800	65 33
737	951225 0600	170 50
738	951225 1800	108 00
739	951226 0600	42 33
740	951226 1800	37 00
741	951227 0600	13 00
742	951227 1800	38 00
743	951228 0600	25 60
744	951228 1800	31 00
745	951229 0600	28 67
746	951229 1800	21 67
747	951230 0600	26 33
748	951230 1800	24 33
749	951231 0600	34 33
750	951231 1800	25 33
751	960101 0600	24 67
752	960101 1800	31 00
753	960102 0600	77 33
754	960102 1800	67 67
755	960103 0600	39 33
756	960103 1800	31 67
757	960104 0600	34 67
758	960104 1800	28 33
759	960105 0600	21 33
760	960105 1800	25 67
761	960106 0600	57 67
762	960106 1800	87 20
763	960107 0600	174 80
764	960107 1800	62 00
765	960108 0600	60 33

L1M1TSS: Pg 1, 10

	Date YYMMDD hhmm	TSS mg/L
766	960108 1800	18 80
767	960109 0600	16 82
768	960109 1800	10 80
769	960110 0600	13 80
770	960110 1800	13 00
771	960111 0600	10 60
772	960111 1800	29 80
773	960112 0600	16 20
774	960112 1800	13 00
775	960113 0600	18 20
776	960113 1800	15 80
777	960114 0600	12 80
778	960114 1800	75 00
779	960115 0600	24 20
780	960115 1800	37 00
781	960116 0600	36 67
782	960116 1800	35 67
783	960117 0600	47 67
784	960117 1800	283 33
785	960118 0600	109 20
786	960118 1800	304 00
787	960119 0600	319 33
788	960119 1800	60 67
789	960120 0600	48 00
790	960120 1800	49 33
791	960121 0600	34 33
792	960121 1800	28 00
793	960122 0600	34 33
794	960122 1800	56 33
795	960123 0600	52 00
796	960123 1800	126 40
797	960124 0600	170 00
798	960124 1800	99 00
799	960125 0600	40 67
800	960125 1800	71 00
801	960126 0600	70 00
802	960126 1800	45 33
803	960127 0600	90 67
804	960127 1800	76 67
805	960128 0600	45 67
806	960128 1800	36 67
807	960129 0600	34 33
808	960129 1800	36 67
809	960130 0600	48 33
810	960130 1800	64 80
811	960131 0600	37 00
812	960131 1800	140 00
813	960201 0600	121 00
814	960201 1800	171 33
815	960202 0600	180 00
816	960202 1800	125 00
817	960203 0600	217 33
818	960203 1800	253 00
819	960204 0600	137 20
820	960204 1800	90 40
821	960205 0600	63 60
822	960205 1800	37 67
823	960206 0600	14 67
824	960206 1800	23 20
825	960207 0600	31 33
826	960207 1800	38 33
827	960208 0600	29 67
828	960208 1800	52 67
829	960209 0600	48 00
830	960209 1800	25 33
831	960210 0600	42 00
832	960210 1800	30 67
833	960211 0600	30 00
834	960211 1800	113 20
835	960212 0600	70 00
836	960212 1800	38 67
837	960213 0600	29 20
838	960213 1800	77 67
839	960214 0600	34 00
840	960214 1800	58 33
841	960215 0600	80 00
842	960215 1800	82 33
843	960216 0600	41 67
844	960216 1800	62 67
845	960217 0600	28 33
846	960217 1800	90 00
847	960218 0600	170 40
848	960218 1800	43 00
849	960219 0600	58 33
850	960219 1800	64 00

LLM1TSS: Pg 1,11

	Date YYMMDD hhmm	TSS mg/L
851	960220 0600	37 67
852	960220 1800	65 33
853	960221 0600	121 50
854	960221 1800	95 60
855	960222 0600	142 00
856	960222 1800	126 00
857	960223 0600	31 67
858	960223 1800	53 00
859	960224 0600	164 50
860	960226 1800	156 50
861	960227 0600	208 67
862	960227 1800	105 00
863	960228 0600	72 00
864	960228 1800	398 67
865	960229 0600	421 33
866	960229 1800	366 67
867	960301 0600	264 00
868	960301 1800	187 33
869	960302 0600	49 20
870	960302 1800	38 40
871	960303 0600	31 60
872	960303 1800	31 80
873	960304 0600	22 20
874	960304 1800	88 67
875	960305 0600	81 67
876	960305 1800	80 67
877	960306 0600	95 33
878	960306 1800	63 00
879	960307 0600	1258 00
880	960307 1800	222 50
881	960308 0600	332 00
882	960308 1800	176 67
883	960309 0600	76 33
884	960309 1800	77 67
885	960310 0600	48 67
886	960310 1800	61 67
887	960311 0600	43 00
888	960312 0600	35 00
889	960312 1800	48 00
890	960313 0600	69 00
891	960313 1800	152 50
892	960314 0600	137 33
893	960314 1800	217 33
894	960315 0600	76 00
895	960315 1800	68 00
896	960316 0600	43 67
897	960316 1800	42 33
898	960317 0600	54 33
899	960317 1800	49 00
900	960318 0600	66 33
901	960318 1800	161 00
902	960319 0600	99 00
903	960319 1800	54 00
904	960320 0600	45 67
905	960320 1800	84 67
906	960321 0600	48 00
907	960321 1800	109 50
908	960322 0600	74 80
909	960322 1800	136 00
910	960323 0600	162 50
911	960323 1800	160 00
912	960324 0600	168 67
913	960324 1800	186 67
914	960325 0600	88 00
915	960325 1800	304 00
916	960326 0600	241 33
917	960326 1800	245 33
918	960327 0600	205 33
919	960327 1800	340 67
920	960328 0600	115 50
921	960328 1800	41 00
922	960329 0600	31 80
923	960329 1800	72 67
924	960330 0600	48 40
925	960330 1800	22 00
926	960331 0600	17 00
927	960331 1800	94 00
928	960401 0600	59 67
929	960401 1800	102 80
930	960402 0600	34 67
931	960402 1800	88 33
932	960403 0600	96 00
933	960403 1800	102 00
934	960404 0600	57 00
935	960404 1800	98 00

LLM1TSS: Pg 1,12

	Date YYMMDD hhmm	TSS mg/L
936	960405 0600	90 80
937	960405 1800	173 50
938	960406 0600	427 00
939	960406 1800	181 50
940	960407 0600	46 67
941	960407 1800	22 60
942	960409 0600	28 20
943	960408 1800	93 67
944	960409 0600	68 33
945	960409 1800	88 89
946	960410 0600	156 50
947	960410 1800	162 00
948	960411 0600	284 00
949	960411 1800	272 00
950	960412 0600	344 00
951	960412 1800	256 00
952	960413 0600	72 67
953	960413 1800	164 00
954	960414 0600	100 00
955	960414 1800	80 40
956	960415 0600	124 00
957	960415 1800	166 50
958	960416 0600	54 00
959	960416 1800	116 40
960	960417 0600	148 00
961	960417 1800	153 33
962	960418 0600	102 80
963	960418 1800	74 80
964	960419 0600	188 67
965	960419 1800	224 00
966	960420 0600	240 00
967	960420 1800	177 00
968	960421 0600	126 00
969	960421 1800	187 00
970	960422 0600	276 67
971	960422 1800	111 60
972	960423 0600	270 50
973	960423 1800	316 00
974	960424 0600	70 00
975	960424 1800	106 00
976	960425 0600	193 00
977	960425 1800	440 00
978	960426 0600	377 00
979	960426 1800	190 40
980	960427 0600	122 40
981	960427 1800	209 20
982	960428 0600	354 00
983	960428 1800	378 00
984	960429 0600	293 33
985	960429 1800	357 33
986	960430 0600	98 00
987	960430 1800	220 00
988	960501 0600	408 67
989	960501 1800	298 67
990	960502 0600	448 00
991	960502 1800	236 00
992	960503 0600	371 00
993	960503 1800	230 67
994	960504 0600	303 33
995	960504 1800	220 50
996	960505 0600	193 00
997	960505 1800	313 00
998	960506 0600	300 67
999	960506 1800	261 33
1000	960507 0600	341 33
1001	960507 1800	208 50
1002	960508 0600	227 50
1003	960508 1800	224 00
1004	960509 0600	208 00
1005	960509 1800	270 00
1006	960510 0600	331 50
1007	960510 1800	207 50
1008	960511 0600	190 00
1009	960511 1800	334 50
1010	960512 0600	126 00
1011	960512 1800	172 50
1012	960513 0600	175 50
1013	960513 1800	187 50
1014	960514 0600	229 00
1015	960514 1800	280 00
1016	960515 0600	260 00
1017	960515 1800	306 50
1018	960516 0600	284 50
1019	960516 1800	153 00
1020	960517 0600	144 50

LLM1TSS: Pg 1, 13

	Date YYMMDD hhmm	TSS mg/L
1021	960517 1800	301 00
1022	960518 0600	208 50
1023	960518 1800	326 50
1024	960519 0600	214 00
1025	960519 1800	148 50
1026	960520 0600	225 00
1027	960520 1800	122 60
1028	960521 0600	207 00
1029	960521 1800	159 00
1030	960522 0600	182 50
1031	960522 1800	147 00
1032	960523 0600	178 00
1033	960523 1800	205 00
1034	960524 0600	220 50
1035	960524 1800	178 51
1036	960525 0600	135 63
1037	960525 1800	162 34
1038	960526 0600	189 35
1039	960526 1800	206 52
1040	960527 0600	191 09
1041	960527 1800	221 28
1042	960528 0600	167 66
1043	960528 1800	136 52
1044	960529 0600	130 21
1045	960529 1800	188 51
1046	960530 0600	137 02
1047	960530 1800	123 83
1048	960531 0600	132 13
1049	960531 1800	121 88
1050	960531 0600	100 43
1051	960531 1800	105 42
1052	960532 0600	144 58
1053	960532 1800	55 74
1054	960533 0600	50 21
1055	960533 1800	69 68
1056	960534 0600	57 02
1057	960534 1800	41 33
1058	960535 0600	87 66
1059	960535 1800	120 87
1060	960536 0600	152 39
1061	960536 1800	124 55
1062	960537 0600	161 10
1063	960537 1800	115 65
1064	960538 0600	89 57
1065	960538 1800	57 78
1066	960539 0600	30 00
1067	960539 1800	50 44
1068	960540 0600	110 00
1069	960540 1800	151 56
1070	960541 0600	139 78
1071	960541 1800	117 66
1072	960542 0600	146 44
1073	960542 1800	93 83
1074	960543 0600	79 57
1075	960543 1800	59 79
1076	960544 0600	97 66
1077	960544 1800	85 32
1078	960545 0600	81 28
1079	960545 1800	94 04
1080	960546 0600	81 08
1081	960546 1800	65 11
1082	960547 0600	90 43
1083	960547 1800	56 17
1084	960548 0600	122 37
1085	960548 1800	79 57
1086	960549 0600	125 53
1087	960549 1800	102 13
1088	960550 0600	133 33
1089	960550 1800	78 94
1090	960551 0600	102 77
1091	960551 1800	108 09
1092	960552 1800	148 51
1093	960552 0600	110 21
1094	960552 1800	190 85
1095	960553 0600	138 30
1096	960553 1800	167 66
1097	960554 0600	104 47
1098	960554 1800	155 11
1099	960555 0600	101 28
1100	960555 1800	135 96
1101	960556 0600	120 00
1102	960556 1800	136 60
1103	960557 0600	118 75
1104	960557 1800	159 79
1105	960558 0600	77 08

LLM1TSS: Pg 1, 14

	Date YYMMDD hhmm	TSS mg/L
1106	960628 1800	96 89
1107	960629 0600	105 22
1108	960629 1800	77 17
1109	960630 0600	57 39
1110	960630 1800	60 67
1111	960701 0600	62 89
1112	960701 1800	91 52
1113	960702 0600	68 48
1114	960702 1800	94 78
1115	960703 0600	51 28
1116	960703 1800	76 17
1117	960704 0600	49 35
1118	960704 1800	89 36
1119	960705 0600	89 15
1120	960705 1800	79 15
1121	960706 0600	79 15
1122	960706 1800	120 21
1123	960707 0600	67 66
1124	960707 1800	82 77
1125	960708 0600	78 72
1126	960708 1800	141 06
1127	960709 0600	142 08
1128	960709 1800	168 96
1129	960710 0600	104 38
1130	960710 1800	144 42
1131	960711 0600	126 30
1132	960711 1800	161 59
1133	960712 0600	76 74
1134	960712 1800	90 83
1135	960713 0600	136 50
1136	960713 1800	126 67
1137	960714 0600	151 94
1138	960714 1800	177 14
1139	960715 0600	138 18
1140	960715 1800	141 90
1141	960716 0600	121 06
1142	960716 1800	123 86
1143	960717 0600	69 79
1144	960717 1800	82 17
1145	960718 0600	66 22
1146	960718 1800	106 84
1147	960719 0600	96 09
1148	960719 1800	92 08
1149	960720 0600	93 75
1150	960720 1800	143 33
1151	960721 0600	186 50
1152	960721 1800	146 97
1153	960722 0600	154 63
1154	960722 1800	137 58
1155	960723 0600	114 29
1156	960723 1800	107 89
1157	960724 0600	138 48
1158	960724 1800	147 89
1159	960725 0600	178 64
1160	960725 1800	83 59
1161	960726 0600	95 00
1162	960726 1800	67 50
1163	960727 0600	121 11
1164	960727 1800	46 15
1165	960728 0600	69 74
1166	960728 1800	45 26
1167	960729 0600	58 42
1168	960729 1800	43 89
1169	960730 0600	101 75
1170	960730 1800	195 71
1171	960731 0600	116 58
1172	960731 1800	83 95
1173	960801 0600	124 63
1174	960801 1800	145 48
1175	960802 0600	110 91
1176	960802 1800	241 43
1177	960803 0600	165 31
1178	960803 1800	272 86
1179	960804 0600	109 72
1180	960804 1800	213 64
1181	960805 0600	96 97
1182	960805 1800	183 33
1183	960806 0600	75 61
1184	960806 1800	91 88
1185	960807 0600	53 96
1186	960807 1800	85 42
1187	960808 0600	47 76
1188	960808 1800	61 04
1189	960809 0600	45 51
1190	960809 1800	45 10

LLM1TSS: Pg 1, 15

	Date YYMMDD hhmm	TSS mg/L
1191	960810 0600	37 55
1192	960810 1800	100 61
1193	960811 0600	75 80
1194	960811 1800	126 59
1195	960812 0600	58 16
1196	960812 1800	73 80
1197	960813 0600	53 89
1198	960813 1800	77 87
1199	960814 0600	43 83
1200	960814 1800	100 43
1201	960815 0600	60 21
1202	960815 1800	74 47
1203	960816 0600	56 81
1204	960816 1800	141 06
1205	960817 0600	115 11
1206	960817 1800	122 98
1207	960818 0600	125 53
1208	960818 1800	108 51
1209	960819 0600	66 17
1210	960819 1800	74 47
1211	960820 0600	33 40
1212	960820 1800	78 94
1213	960821 0600	32 34
1214	960821 1800	68 51
1215	960822 1800	28 09
1216	960822 1800	34 38
1217	960823 0600	33 33
1218	960823 1800	75 00
1219	960824 0600	41 25
1220	960824 1800	38 13
1221	960825 0600	44 17
1222	960828 1800	95 63
1223	960829 0600	96 04
1224	960829 1800	95 42
1225	960830 0600	76 52
1226	960830 1800	76 04
1227	960831 0600	64 79
1228	960831 1800	52 08
1229	960901 0600	51 46
1230	960901 1800	60 00
1231	960902 0600	59 58
1232	960902 1800	58 96
1233	960903 0600	59 58
1234	960903 1800	66 30
1235	960904 0600	63 04
1236	960904 1800	95 22
1237	960905 0600	59 13
1238	960905 1800	46 81
1239	960906 0600	47 08
1240	960906 1800	76 17
1241	960907 0600	47 02
1242	960907 1800	61 70
1243	960908 0600	50 42
1244	960908 1800	57 50
1245	960909 0600	42 29
1246	960909 1800	80 63
1247	960910 0600	67 66
1248	960910 1800	62 74
1249	960911 0600	39 38
1250	960911 1800	61 67
1251	960912 0600	33 75
1252	960912 1800	67 92
1253	960913 0600	54 17
1254	960913 1800	40 21
1255	960914 0600	53 83
1256	960914 1800	89 36
1257	960915 0600	131 70
1258	960915 1800	128 30
1259	960916 0600	87 02
1260	960916 1800	102 77
1261	960917 0600	47 10
1262	960917 1800	104 04
1263	960918 0600	76 81
1264	960918 1800	83 40
1265	960919 0600	45 53
1266	960919 1800	127 87
1267	960920 0600	83 48
1268	960920 1800	133 19
1269	960921 0600	61 06
1270	960921 1800	64 26
1271	960922 0600	32 98
1272	960922 1800	77 02
1273	960923 0600	36 81
1274	960924 0600	63 19
1275	960924 1800	96 25

LLM1TSS: Pg 1,16

	Date YYMMDD hhmm	TSS mg/L
1276	960925 0600	67 29
1277	960925 1800	77 08
1278	960926 0600	124 63
1279	960926 1800	277 33
1280	960927 0600	135 11
1281	960927 1800	148 72
1282	960928 0600	172 07
1283	960928 1800	114 58
1284	960929 0600	120 93
1285	960929 1800	71 79
1286	960930 0600	53 96
1287	960930 1800	41 04
1288	961001 0600	47 08
1289	961001 1800	31 46
1290	961002 0600	23 13
1291	961002 1800	30 42
1292	961003 0600	43 54
1293	961003 1800	88 13
1294	961004 0600	140 00
1295	961004 1800	121 04
1296	961005 0600	65 21
1297	961005 1800	96 12
1298	961006 0600	162 89
1299	961006 1800	91 06
1300	961007 0600	64 90
1301	961007 1800	21 49
1302	961008 0600	20 21
1303	961008 1800	13 54
1304	961009 0600	8 13
1305	961009 1800	19 35
1306	961010 0600	8 37
1307	961010 1800	20 21
1308	961011 0600	24 17
1309	961011 1800	18 33
1310	961012 0600	17 08
1311	961012 1800	14 79
1312	961013 0600	20 42
1313	961013 1800	19 17
1314	961014 0600	12 71
1315	961014 1800	14 38
1316	961015 0600	10 42
1317	961015 1800	25 83
1318	961016 0600	26 25
1319	961016 1800	32 71
1320	961017 0600	29 58
1321	961017 1800	45 63
1322	961018 0600	23 96
1323	961018 1800	66 46
1324	961019 0600	32 92
1325	961019 1800	84 58
1326	961020 0600	96 46
1327	961020 1800	117 71
1328	961021 0600	117 08
1329	961021 1800	117 45
1330	961022 0600	187 23
1331	961022 1800	274 68
1332	961023 0600	56 67
1333	961023 1800	46 67
1334	961024 0600	55 00
1335	961024 1800	45 00
1336	961025 0600	60 00
1337	961025 1800	128 13
1338	961026 0600	107 08
1339	961026 1800	113 96
1340	961027 0600	64 38
1341	961027 1800	129 58
1342	961028 0600	143 96
1343	961028 1800	89 58
1344	961029 0600	124 38
1345	961029 1800	138 75
1346	961030 0600	90 00
1347	961030 1800	89 15
1348	961031 0600	72 77
1349	961031 1800	203 48
1350	961101 0600	132 13
1351	961101 1800	88 30
1352	961102 0600	171 91
1353	961102 1800	107 87
1354	961103 0600	73 27
1355	961103 1800	30 83
1356	961104 0600	42 29
1357	961104 1800	27 71
1358	961105 0600	15 96
1359	961105 1800	80 00
1360	961106 0600	103 13

LLM1TSS: Pg 1, 17

	Date YYMMDD hhmm	TSS mg/L
1361	961106 1800	244 58
1362	961107 0600	216 04
1363	961107 1800	177 50
1364	961108 0600	196 67
1365	961108 1800	89 35
1366	961109 0600	44 04
1367	961109 1800	55 22
1368	961110 0600	43 40
1369	961110 1800	61 52
1370	961111 0600	62 13
1371	961111 1800	61 28
1372	961112 0600	70 00
1373	961112 1800	65 11
1374	961113 0600	50 85
1375	961113 1800	59 79
1376	961114 0600	43 19
1377	961114 1800	89 07
1378	961115 0600	60 43
1379	961115 1800	87 71
1380	961116 0600	112 71
1381	961116 1800	103 75
1382	961117 0600	53 81
1383	961117 1800	67 37
1384	961118 0600	37 71
1385	961118 1800	69 38
1386	961119 0600	49 58
1387	961119 1800	64 17
1388	961120 0600	65 63
1389	961120 1800	49 09
1390	961121 0600	57 71
1391	961121 1800	57 92
1392	961122 0600	38 09
1393	961122 1800	32 55
1394	961123 0600	60 00
1395	961123 1800	109 58
1396	961124 0600	176 68
1397	961124 1800	216 25
1398	961125 0600	91 49
1399	961125 1800	86 94
1400	961126 0600	38 96
1401	961126 1800	47 02
1402	961127 0600	38 30
1403	961127 1800	49 35
1404	961128 0600	47 45
1405	961128 1800	37 23
1406	961129 0600	90 21
1407	961129 1800	41 25
1408	961130 0600	94 89
1409	961130 1800	88 33
1410	961201 0600	80 42
1411	961201 1800	51 91
1412	961202 0600	63 33
1413	961202 1800	61 88
1414	961203 0600	41 05
1415	961203 1800	27 71
1416	961204 0600	30 42
1417	961204 1800	28 75
1418	961205 0600	28 51
1419	961205 1800	25 32
1420	961206 0600	28 60
1421	961206 1800	51 91
1422	961207 0600	39 16
1423	961207 1800	77 89
1424	961208 0600	185 11
1425	961209 1800	43 04
1426	961210 0600	84 19
1427	961210 1800	62 82
1428	961211 0600	183 33
1429	961211 1800	193 26
1430	961212 0600	215 48
1431	961212 1800	65 29
1432	961213 0600	80 00
1433	961213 1800	46 05
1434	961214 0600	74 65
1435	961214 1800	61 82
1436	961215 0600	191 03
1437	961215 1800	100 47
1438	961216 0600	286 28
1439	961216 1800	370 00
1440	961217 0600	99 32
1441	961217 1800	55 45
1442	961218 0600	90 91
1443	961218 1800	401 59
1444	961219 0600	331 36
1445	961219 1800	254 16

LLM1TSS: Pg 1, 18

	Date YYMMDD hhmm	TSS mg/L
1446	961220 0600	117 73
1447	970110 1800	85 23
1448	970111 0600	76 98
1449	970111 1800	118 14
1450	970112 0600	281 86
1451	970112 1800	248 84
1452	970113 0600	469 64
1453	970113 1800	485 11
1454	970114 0600	520 89
1455	970114 1800	324 89
1456	970115 0600	128 00
1457	970115 1800	81 78
1458	970116 0600	44 18
1459	970116 1800	87 50
1460	970117 0600	38 64
1461	970117 1800	77 56
1462	970118 0600	85 11
1463	970118 1800	65 78
1464	970119 0600	41 82
1465	970119 1800	30 44
1466	970120 0600	32 44
1467	970120 1800	32 50
1468	970121 0600	28 18
1469	970121 1800	63 64
1470	970122 0600	55 23
1471	970122 1800	25 35
1472	970123 0600	21 36
1473	970123 1800	27 91
1474	970124 0600	19 77
1475	970124 1800	24 77
1476	970125 0600	19 32
1477	970125 1800	34 88
1478	970126 0600	32 50
1479	970126 1800	41 36
1480	970127 0600	45 91
1481	970127 1800	66 82
1482	970128 0600	694 09
1483	970128 1800	253 49
1484	970129 0600	122 95
1485	970129 1800	88 86
1486	970130 0600	43 11
1487	970130 1800	46 14
1488	970131 0600	27 50
1489	970131 1800	46 98
1490	970201 0600	33 86
1491	970201 1800	65 58
1492	970202 0600	32 27
1493	970202 1800	62 50
1494	970203 0600	32 05
1495	970203 1800	30 00
1496	970204 0600	22 73
1497	970204 1800	38 41
1498	970205 0600	41 36
1499	970205 1800	94 15
1500	970206 0600	116 36
1501	970206 1800	27 27
1502	970207 0600	75 81
1503	970207 1800	194 77
1504	970208 0600	204 19
1505	970208 1800	137 05
1506	970209 0600	92 05
1507	970209 1800	46 82
1508	970210 0600	117 05
1509	970210 1800	180 00
1510	970211 0600	105 91
1511	970211 1800	71 59
1512	970212 0600	115 45
1513	970212 1800	99 32
1514	970213 0600	78 41
1515	970213 1800	80 23
1516	970214 0600	186 98
1517	970215 0600	52 95
1518	970215 1800	65 58
1519	970216 0600	40 93
1520	970216 1800	41 36
1521	970217 0600	33 86
1522	970217 1800	50 70
1523	970218 0600	100 23
1524	970218 1800	108 84
1525	970219 0600	60 23
1526	970219 1800	106 98
1527	970220 0600	169 77
1528	970220 1800	180 47
1529	970221 0600	43 49
1530	970221 1800	56 98

LLM1TSS: Pg 1, 19

	Date YYMMDD hhmm	TSS mg/L
1531	970222 0600	253 26
1532	970222 1800	152 62
1533	970223 0600	67 91
1534	970223 1800	64 42
1535	970224 0600	51 63
1536	970224 1800	28 60
1537	970225 0600	35 02
1538	970225 1800	50 45
1539	970226 0600	180 45
1540	970226 1800	157 50
1541	970227 0600	62 05
1542	970227 1800	52 73
1543	970228 0600	61 16
1544	970228 1800	257 91
1545	970301 0600	148 37
1546	970301 1800	151 16
1547	970302 0600	148 84
1548	970302 1800	54 65
1549	970303 0600	69 55
1550	970303 1800	54 42
1551	970304 0600	70 93
1552	970304 1800	120 23
1553	970305 0600	198 37
1554	970305 1800	53 18
1555	970306 0600	94 55
1556	970308 1800	67 91
1557	970309 0600	100 70
1558	970309 1800	60 23
1559	970310 0600	47 05
1560	970310 1800	34 42
1561	970311 0600	51 16
1562	970311 1800	64 55
1563	970312 0600	67 73
1564	970312 1800	30 91
1565	970313 0600	62 50
1566	970313 1800	80 23
1567	970314 0600	89 77
1568	970314 1800	167 44
1569	970315 0600	197 44
1570	970315 1800	76 51
1571	970316 0600	61 86
1572	970316 1800	43 41
1573	970317 0600	48 84
1574	970317 1800	94 55
1575	970318 0600	153 41
1576	970318 1800	85 00
1577	970319 0600	68 86

LLM2TSS: Pg 1,1

	Date YYMMDD hhmm	TSS mg/L
1	940831 1800	51 60
2	940901 0600	217 80
3	940901 1800	33 17
4	940902 0600	37 80
5	940902 1800	51 50
6	940903 0600	36 17
7	940903 1800	24 40
8	940904 0600	89 10
9	940904 1800	62 67
10	940905 0600	42 00
11	940905 1800	64 40
12	940906 0600	56 50
13	940906 1800	32 30
14	940907 0600	31 80
15	940907 1800	51 17
16	940908 0600	38 40
17	940908 1800	47 80
18	940909 0600	35 67
19	940909 1800	69 00
20	940910 0600	48 00
21	940911 0600	27 00
22	940911 1800	56 40
23	940913 1800	132 80
24	940914 0600	161 20
25	940914 1800	79 67
26	940915 0600	54 40
27	940915 1800	80 40
28	940916 0600	82 33
29	940916 1800	45 50
30	940917 0600	60 00
31	940917 1800	49 20
32	940918 0600	55 20
33	940918 1800	34 25
34	940919 0600	52 00
35	940919 1800	78 80
36	940920 0600	54 60
37	940920 1800	45 80
38	940921 0600	48 20
39	940922 0600	188 00
40	940923 0600	129 00
41	940923 1800	176 40
42	940924 0600	126 50
43	940924 1800	45 60
44	940925 0600	174 80
45	940925 1800	69 70
46	940926 0600	61 60
47	940926 1800	160 00
48	940927 0600	111 00
49	940927 1800	58 20
50	940928 0600	208 80
51	940928 1800	57 20
52	940929 0600	260 00
53	940929 1800	58 20
54	940930 0600	114 50
55	940930 1800	58 40
56	941001 0600	76 60
57	941002 0600	154 40
58	941002 1800	137 20
59	941003 0600	33 90
60	941004 0600	163 60
61	941004 1800	58 20
62	941005 1800	152 80
63	941006 0600	181 20
64	941006 1800	341 00
65	941007 0600	235 20
66	941007 1800	282 40
67	941008 0600	339 30
68	941008 1800	258 40
69	941009 0600	243 80
70	941009 1800	161 67
71	941010 0600	258 80
72	941010 1800	499 40
73	941011 0600	174 67
74	941011 1800	186 00
75	941012 0600	219 20
76	941013 1800	56 00
77	941014 0600	61 40
78	941015 0600	176 40
79	941015 1800	214 80
80	941016 1800	208 80
81	941017 0600	104 80
82	941018 0600	190 00
83	941018 1800	279 20
84	941019 1800	241 60
85	941020 0600	200 80

LLM2TSS: Pg 1, 2

	Date YYMMDD hhmm	TSS mg/L
86	941021 0600	241 20
87	941021 1800	309 20
88	941028 1800	218 00
89	941029 0600	140 00
90	941030 0600	163 20
91	941030 1800	210 40
92	941031 0600	135 60
93	941031 1800	204 00
94	941101 0600	239 20
95	941102 0600	211 20
96	941102 1800	446 40
97	941103 1800	414 00
98	941104 0600	284 80
99	941107 0600	224 40
100	941107 1800	143 40
101	941108 0600	102 50
102	941108 1800	129 60
103	941109 0600	75 10
104	941109 1800	103 30
105	941110 0600	177 90
106	941110 1800	111 20
107	941111 0600	75 30
108	941111 1800	119 50
109	941112 0600	105 80
110	941112 1800	103 90
111	941113 0600	161 50
112	941113 1800	180 20
113	941114 0600	27 80
114	941114 1800	54 50
115	941115 0600	30 70
116	941115 1800	152 00
117	941116 0600	65 50
118	941116 1800	50 00
119	941117 0600	36 71
120	941117 1800	52 30
121	941118 0600	48 10
122	941118 1800	177 25
123	941119 0600	133 33
124	941120 0600	248 75
125	941120 1800	260 75
126	941121 0600	69 00
127	941121 1800	168 00
128	941122 0600	87 50
129	941122 1800	77 67
130	941123 0600	41 75
131	941123 1800	298 30
132	941124 0600	267 66
133	941124 1800	51 20
134	941125 0600	20 00
135	941125 1800	49 40
136	941126 0600	76 20
137	941126 1800	359 20
138	941127 0600	340 80
139	941127 1800	158 00
140	941128 0600	199 67
141	941128 1800	269 20
142	941129 0600	246 00
143	941129 1800	337 30
144	941130 0600	255 00
145	941130 1800	162 20
146	941201 0600	54 20
147	941201 1800	52 00
148	941202 0600	52 20
149	941202 1800	54 40
150	941203 0600	41 80
151	941203 1800	34 40
152	941204 0600	62 60
153	941204 1800	57 44
154	941205 0600	50 16
155	941205 1800	200 43
156	941206 0600	65 40
157	941206 1800	203 50
158	941207 0600	135 25
159	941207 1800	155 20
160	941208 0600	71 80
161	941208 1800	216 00
162	941209 0600	86 20
163	941209 1800	60 80
164	941210 0600	351 10
165	941210 1800	151 30
166	941211 0600	142 00
167	941211 1800	48 00
168	941212 0600	38 80
169	941212 1800	54 30
170	941213 0600	34 40

LLM2TSS: Pg 1, 3

	Date YYMMDD hhmm	TSS mg/L
171	941213 1800	52 60
172	941214 0600	48 00
173	941214 1800	109 40
174	941215 0600	75 60
175	941215 1800	170 00
176	941216 0600	232 40
177	941216 1800	202 40
178	941217 0600	183 60
179	941217 1800	289 20
180	941218 0600	253 60
181	941218 1800	364 00
182	941219 0600	182 40
183	941219 1800	101 60
184	941220 0600	149 60
185	941220 1800	116 80
186	941221 0600	89 60
187	941221 1800	178 00
188	941222 0600	155 20
189	941222 1800	177 60
190	941223 0600	173 20
191	941223 1800	144 00
192	941224 0600	63 60
193	941224 1800	176 00
194	941225 0600	172 40
195	941225 1800	84 00
196	941226 0600	135 60
197	941226 1800	181 60
198	941227 0600	105 60
199	941228 1800	227 20
200	941229 0600	200 40
201	941229 1800	229 20
202	941230 0600	157 60
203	941230 1800	211 20
204	941231 0600	254 40
205	941231 1800	226 80
206	950101 0600	212 00
207	950102 0600	301 20
208	950102 1800	219 20
209	950103 0600	269 20
210	950103 1800	449 60
211	950104 0600	236 00
212	950104 1800	353 60
213	950105 0600	222 40
214	950105 1800	638 00
215	950106 0600	208 80
216	950106 1800	146 00
217	950107 0600	132 40
218	950109 1800	150 40
219	950112 0600	124 40
220	950112 1800	156 80
221	950114 0600	130 40
222	950114 1800	144 80
223	950116 1800	733 60
224	950117 1800	236 00
225	950118 0600	157 20
226	950119 1800	46 20
227	950120 0600	62 80
228	950120 1800	94 60
229	950122 1800	80 75
230	950124 0600	398 40
231	950124 1800	467 60
232	950126 0600	70 75
233	950126 1800	61 00
234	950128 0600	59 25
235	950128 1800	52 40
236	950130 0600	169 20
237	950131 0600	344 00
238	950211 1800	332 00
239	950213 1800	87 60
240	950215 0600	127 60
241	950215 1800	222 40
242	950217 0600	379 60
243	950217 1800	247 20
244	950219 1800	192 80
245	950220 1800	151 00
246	950226 1800	323 20
247	950228 0600	144 33
248	950228 1800	309 20
249	950302 0600	233 00
250	950302 1800	183 20
251	950304 1800	153 60
252	950306 0600	56 80
253	950306 1800	155 60
254	950308 0600	500 00
255	950308 1800	478 80

LLM2TSS: Pg 1, 4

	Date YYMMDD hhmm	TSS mg/L
256	950310 0600	134 40
257	950310 1800	158 00
258	950312 0600	153 60
259	950312 1800	179 20
260	950314 0600	140 80
261	950314 1800	184 00
262	950316 0600	175 20
263	950316 1800	171 20
264	950318 0600	165 20
265	950318 1800	205 60
266	950320 0600	492 00
267	950320 1600	552 00
268	950322 0600	303 20
269	950322 1800	369 20
270	950324 0600	272 40
271	950324 1800	493 20
272	950326 0600	626 00
273	950326 1800	272 00
274	950328 0600	464 40
275	950328 1800	288 40
276	950330 0600	647 60
277	950330 1800	306 00
278	950401 0600	288 00
279	950401 1800	232 40
280	950403 0600	240 40
281	950403 1800	317 20
282	950406 0600	180 00
283	950406 1800	180 40
284	950408 0600	280 80
285	950408 1800	489 20
286	950410 0600	324 00
287	950410 1800	508 40
288	950412 0600	212 00
289	950412 1800	120 25
290	950414 0600	85 75
291	950414 1800	251 20
292	950416 0600	544 50
293	950416 1800	321 20
294	950519 0600	193 20
295	950519 1800	230 00
296	950521 0600	157 20
297	950521 1800	167 60
298	950523 0600	193 20
299	950523 1800	235 20
300	950525 0600	209 20
301	950525 1800	172 80
302	950527 0600	218 00
303	950527 1800	182 80
304	950529 0600	182 80
305	950529 1800	201 60
306	950531 0600	204 40
307	950531 1800	158 40
308	950602 0600	190 80
309	950602 1800	205 20
310	950604 0600	214 80
311	950604 1800	204 80
312	950606 0600	171 60
313	950606 1800	196 40
314	950608 0600	214 00
315	950608 1800	230 00
316	950610 0600	226 00
317	950610 1800	194 70
318	950612 0600	81 20
319	950612 1800	119 40
320	950614 0600	74 20
321	950614 1800	70 40
322	950616 0600	89 80
323	950616 1800	103 40
324	950618 0600	35 00
325	950618 1800	90 80
326	950619 1800	81 20
327	950620 0600	88 20
328	950621 1800	69 60
329	950622 0600	59 40
330	950623 1800	82 30
331	950624 0600	66 60
332	950625 1800	110 30
333	950626 0600	58 80
334	950627 1800	110 00
335	950628 0600	74 20
336	950629 1800	158 00
337	950630 0600	105 30
338	950701 1800	57 00
339	950702 0600	76 40
340	950703 1800	176 00

LLM2TSS: Pg 1,5

	Date YYMMDD hhmm	TSS mg/L
341	950704 0600	210 40
342	950705 1800	151 60
343	950706 0600	219 20
344	950706 1800	90 20
345	950707 0600	71 00
346	950708 1800	91 50
347	950709 0600	82 80
348	950710 1800	90 50
349	950711 0600	145 30
350	950712 1800	135 30
351	950713 0600	112 80
352	950714 1800	99 80
353	950715 0600	93 50
354	950716 1800	112 50
355	950717 0600	97 70
356	950718 1800	82 50
357	950719 0600	155 20
358	950720 1800	177 60
359	950721 0600	221 60
360	950722 1800	261 20
361	950723 0600	212 00
362	950724 1800	203 80
363	950725 0600	171 00
364	950726 1800	155 70
365	950727 0600	153 00
366	950727 1800	62 70
367	950728 0600	74 70
368	950730 1800	79 33
369	950731 0600	52 44
370	950801 1800	98 70
371	950802 0600	38 00
372	950803 1800	69 40
373	950804 0600	41 80
374	950805 1800	73 00
375	950806 0600	23 60
376	950818 1800	30 33
377	950819 0600	20 67
378	950820 1800	20 67
379	950821 0600	35 67
380	950822 1800	33 00
381	950823 0600	18 00
382	950824 1800	52 67
383	950825 0600	35 33
384	950826 1800	4 67
385	950827 0600	26 00
386	950828 1800	40 33
387	950829 0600	24 33
388	950830 1800	34 00
389	950831 0600	40 60
390	950901 1800	46 00
391	950902 0600	75 60
392	950903 1800	40 00
393	950904 0600	43 67
394	950905 1800	46 67
395	950906 0600	68 67
396	950907 1800	55 00
397	950908 0600	37 00
398	950908 1800	54 33
399	950910 0600	58 33
400	950910 1800	43 67
401	950912 0600	68 33
402	950912 1800	47 67
403	950914 0600	55 33
404	950914 1800	56 67
405	950916 0600	65 00
406	950916 1800	55 00
407	950918 0600	80 00
408	950918 1800	52 33
409	950925 1800	47 33
410	950926 0600	30 33
411	950926 1800	28 80
412	950927 0600	14 80
413	950927 1800	29 60
414	950928 0600	30 60
415	950928 1800	32 80
416	950929 0600	35 00
417	950929 1800	34 20
418	950930 0600	25 20
419	950930 1800	32 00
420	951001 0600	26 40
421	951001 1800	42 80
422	951002 0600	29 40
423	951002 1800	33 33
424	951003 0600	67 33
425	951003 1800	57 00

LLM2TSS: Pg 1,6

	Date YYMMDD hmmm	TSS mg/L
426	951004 0600	37 00
427	951004 1800	33 33
428	951005 0600	25 80
429	951005 1800	21 80
430	951006 0600	39 00
431	951006 1800	55 33
432	951007 0600	31 00
433	951007 1800	37 33
434	951008 0600	41 33
435	951008 1800	22 00
436	951009 0600	30 00
437	951009 1800	26 00
438	951010 0600	28 33
439	951010 1800	35 00
440	951011 0600	27 70
441	951011 1800	45 00
442	951012 0600	66 70
443	951012 1800	49 00
444	951013 0600	52 30
445	951013 1800	61 00
446	951014 0600	52 00
447	951022 0600	60 67
448	951022 1800	163 00
449	951024 0600	39 00
450	951024 1800	134 00
451	951026 0600	50 67
452	951026 1800	82 00
453	951028 0600	41 67
454	951028 1800	139 60
455	951030 0600	48 40
456	951030 1800	37 33
457	951101 0600	62 40
458	951101 1800	72 67
459	951103 0600	75 33
460	951103 1800	192 40
461	951105 0600	90 00
462	951105 1800	27 33
463	951107 0600	21 33
464	951107 1800	13 60
465	951109 0600	13 60
466	951109 1800	22 67
467	951111 0600	39 33
468	951111 1800	211 20
469	951113 0600	34 67
470	951113 1800	30 33
471	951115 0600	29 67
472	951115 1800	27 33
473	951117 0600	71 60
474	951117 1800	43 00
475	951119 0600	19 67
476	951119 1800	25 00
477	951121 0600	19 00
478	951122 0600	21 33
479	951122 1800	26 00
480	951124 0600	44 33
481	951124 1800	40 67
482	951126 0600	27 00
483	951126 1800	54 33
484	951128 0600	25 33
485	951128 1800	66 33
486	951130 0600	18 67
487	9511201 0600	23 00
488	9511201 1800	29 33
489	9511203 0600	36 67
490	9511203 1800	34 67
491	9511205 0600	46 67
492	9511205 1800	70 00
493	9511207 0600	34 00
494	9511207 1800	51 00
495	9511209 0600	97 20
496	9511209 1800	246 40
497	9511211 0600	31 33
498	9511211 1800	30 67
499	9511213 0600	39 33
500	9511213 1800	50 67
501	9511215 0600	34 67
502	9511215 1800	30 40
503	9511217 0600	81 20
504	9511217 1800	201 00
505	9511219 0600	52 67
506	9511219 1800	45 00
507	9511221 0600	37 67
508	9511221 1800	46 33
509	9511223 0600	79 00
510	9511223 1800	79 67

LLM2TSS: Pg 1, 7

	Date YYMMDD hhmm	TSS mg/L
511	951225 0600	193 50
512	951225 1800	119 20
513	951227 0600	29 67
514	951228 0600	32 33
515	951228 1800	33 00
516	951230 0600	16 80
517	951230 1800	21 20
518	960101 0600	14 20
519	960101 1800	24 20
520	960103 0600	31 33
521	960103 1800	32 33
522	960105 0600	37 67
523	960105 1800	26 33
524	960107 0600	164 00
525	960107 1800	100 40
526	960109 0600	18 40
527	960109 1800	18 40
528	960111 0600	23 20
529	960111 1800	24 00
530	960113 0600	33 00
531	960113 1800	10 60
532	960115 0600	17 20
533	960115 1800	26 20
534	960117 0600	59 00
535	960117 1800	278 00
536	960119 0600	158 67
537	960119 1800	39 33
538	960121 0600	65 33
539	960121 1800	34 67
540	960123 0600	57 67
541	960123 1800	102 80
542	960125 0600	51 33
543	960125 1800	53 33
544	960127 0600	54 33
545	960127 1800	51 33
546	960129 0600	44 67
547	960129 1800	32 67
548	960131 0600	80 33
549	960201 0600	86 33
550	960201 1800	124 50
551	960203 0600	163 00
552	960203 1800	118 50
553	960205 0600	63 00
554	960205 1800	48 33
555	960207 0600	27 60
556	960207 1800	24 80
557	960209 0600	24 60
558	960211 1800	147 50
559	960213 0600	64 00
560	960213 1800	100 20
561	960215 0600	123 00
562	960215 1800	133 00
563	960217 0600	59 80
564	960217 1800	128 20
565	960219 0600	90 33
566	960219 1800	99 33
567	960221 0600	141 33
568	960221 1800	163 33
569	960223 0600	69 00
570	960223 1800	81 00
571	960227 0600	321 50
572	960227 1800	147 67
573	960229 0600	421 00
574	960229 1800	452 50
575	960302 0600	98 00
576	960302 1800	78 00
577	960304 0600	40 67
578	960306 0600	66 00
579	960306 1800	82 33
580	960308 0600	400 67
581	960308 1800	249 00
582	960310 0600	84 00
583	960310 1800	82 00
584	960312 0600	54 33
585	960312 1800	60 67
586	960314 0600	79 00
587	960314 1800	175 33
588	960315 1800	108 00
589	960316 0600	48 00
590	960316 1800	50 33
591	960318 0600	72 00
592	960318 1800	157 33
593	960320 0600	121 92
594	960320 1800	88 40
595	960322 0600	116 50

LLM2TSS: Pg 1, 8

	Date YYMMDD hhmm	TSS mg/L
596	960322 1800	164 50
597	960324 0600	144 50
598	960324 1800	217 00
599	960326 0600	412 67
600	960326 1800	326 43
601	960328 0600	96 00
602	960328 1800	58 40
603	960330 0600	61 67
604	960330 1800	25 40
605	960401 0600	87 00
606	960401 1800	126 80
607	960403 0600	129 00
608	960403 1800	161 50
609	960405 0600	91 50
610	960406 0600	318 00
611	960406 0600	214 67
612	960408 0600	67 60
613	960408 1800	320 37
614	960410 0600	94 00
615	960410 1800	157 50
616	960412 0600	160 00
617	960412 1800	240 00
618	960414 0600	74 00
619	960414 1800	68 00
620	960416 0600	65 67
621	960417 0600	302 00
622	960417 1800	179 33
623	960419 0600	215 33
624	960419 1800	333 33
625	960421 0600	188 00
626	960421 1800	218 00
627	960423 0600	366 00
628	960423 1800	445 00
629	960425 0600	152 50
630	960425 1800	335 00
631	960427 0600	79 33
632	960427 1800	181 50
633	960429 0600	160 50
634	960429 1800	384 00
635	960501 0600	297 00
636	960501 1800	218 00
637	960503 0600	289 33
638	960503 1800	192 00
639	960505 0600	201 33
640	960505 1800	196 67
641	960507 0600	251 00
642	960507 1800	216 40
643	960509 0600	298 00
644	960509 1800	212 50
645	960511 0600	188 00
646	960511 1800	230 00
647	960513 0600	115 67
648	960513 1800	207 00
649	960515 0600	198 50
650	960515 1800	318 50
651	960517 0600	261 50
652	960517 1800	193 50
653	960519 0600	241 00
654	960521 0600	174 00
655	960521 1800	224 50
656	960523 0600	253 50
657	960525 0600	198 37
658	960525 1800	170 00
659	960527 0600	168 20
660	960527 1800	168 20
661	960529 0600	150 20
662	960529 1800	124 69
663	960531 0600	167 65
664	960531 1800	149 00
665	960602 0600	151 88
666	960602 1800	165 00
667	960604 0600	89 20
668	--	--
669	--	--
670	--	--
671	--	--
672	--	--
673	--	--
674	--	--
675	--	--
676	--	--
677	--	--

LLM3TSS: Pg 1, 1

	Date YYMMDD hhmm	TSS mg/L
1	940831 1800	65 00
2	940901 0600	139 50
3	940902 0600	32 20
4	940902 1800	164 40
5	940903 1800	42 20
6	940904 0600	75 10
7	940905 0600	83 20
8	940905 1800	71 80
9	940906 1800	44 70
10	940907 0600	42 00
11	940908 1800	89 80
12	940909 1800	45 30
13	940910 0600	161 20
14	940911 0600	28 80
15	940911 1800	130 80
16	940913 1800	33 20
17	940914 0600	69 30
18	940915 0600	16 00
19	940915 1800	64 70
20	940916 1800	34 00
21	940917 0600	59 60
22	940918 0600	71 90
23	940918 1800	13 20
24	940919 1800	114 40
25	940920 0600	76 20
26	941002 1800	32 40
27	941003 0600	22 20
28	941003 1800	271 80
29	941004 0600	35 80
30	941004 1800	122 75
31	941005 0600	200 90
32	941005 1800	114 17
33	941006 0600	110 30
34	941006 1800	226 40
35	941007 0600	148 80
36	941007 1800	352 00
37	941008 0600	140 00
38	941008 1800	219 20
39	941009 0600	531 20
40	941010 0600	90 75
41	941010 1800	62 80
42	941011 0600	91 40
43	941011 1800	138 00
44	941012 0600	52 20
45	941013 0600	24 60
46	941013 1800	134 40
47	941014 0600	48 80
48	941015 0600	173 60
49	941015 1800	89 20
50	941016 1800	278 40
51	941017 0600	149 20
52	941018 0600	199 20
53	941018 1800	220 80
54	941019 1800	203 20
55	941020 0600	173 60
56	941021 0600	171 20
57	941021 1800	164 80
58	941022 1800	196 00
59	941023 0600	49 90
60	941024 0600	65 40
61	941024 1800	84 90
62	941028 1800	182,00
63	941029 0600	164 40
64	941030 0600	172 80
65	941030 1800	166 40
66	941031 1800	171 20
67	941101 0600	225 60
68	941102 0600	187 60
69	941102 1800	259 60
70	941103 1800	279 60
71	941104 0600	232 00
72	941107 0600	127 20
73	941107 1800	62 10
74	941108 0600	81 10
75	941108 1800	101 90
76	941109 0600	70 70
77	941109 1800	51 60
78	941110 0600	158 00
79	941110 1800	58 60
80	941111 0600	107 30
81	941111 1800	80 20
82	941112 0600	89 80
83	941112 1800	92 40
84	941113 0600	128 70
85	941113 1800	188 10

LLM3TSS: Pg 1, 2

	Date YYMMDD hhmm	TSS mg/L
66	941114 0600	116 10
87	941114 1800	30 00
88	941115 0600	26 00
89	941115 1800	121 80
90	941116 0600	104 60
91	941116 1800	54 00
92	941117 0600	56 43
93	941117 1800	70 43
94	941118 0600	36 14
95	941119 0600	96 10
96	941119 1800	164 75
97	941120 0600	152 25
98	941120 1800	132 00
99	941121 0600	44 75
100	941121 1800	77 32
101	941122 0600	82 20
102	941122 1800	104 15
103	941123 0600	82 00
104	941123 1800	179 76
105	941124 0600	189 75
106	941124 1800	63 60
107	941125 0600	36 40
108	941125 1800	166 50
109	941126 0600	44 80
110	941126 1800	138 20
111	941127 0600	240 00
112	941127 1800	151 75
113	941128 0600	191 00
114	941128 1800	114 40
115	941129 0600	160 75
116	941129 1800	296 67
117	941130 0600	215 67
118	941130 1800	171 50
119	941201 0600	78 60
120	941201 1800	47 40
121	941202 1800	28 20
122	941203 0600	27 40
123	941203 1800	28 80
124	941204 1800	42 80
125	941205 0600	26 20
126	941205 1800	75 80
127	941206 0600	41 60
128	941206 1800	158 90
129	941207 0600	52 60
130	941207 1800	54 80
131	941208 0600	41 60
132	941208 1800	54 80
133	941209 0600	40 00
134	941209 1800	44 00
135	941210 0600	305 20
136	941210 1800	280 00
137	941211 0600	374 00
138	941211 1800	45 80
139	941212 0600	43 80
140	941212 1800	36 60
141	941213 0600	28 80
142	941213 1800	29 60
143	941214 0600	31 60
144	941214 1800	41 60
145	941215 0600	17 80
146	941215 1800	142 80
147	941216 0600	118 00
148	941216 1800	114 40
149	941217 0600	164 80
150	941217 1800	239 20
151	941218 0600	258 00
152	941218 1800	198 00
153	941219 0600	188 40
154	941219 1800	92 00
155	941220 0600	158 80
156	941220 1800	164 40
157	941221 0600	79 60
158	941221 1800	160 40
159	941222 0600	168 40
160	941222 1800	98 80
161	941223 0600	175 20
162	941223 1800	142 80
163	941224 0600	164 40
164	941224 1800	160 40
165	941225 0600	186 40
166	941225 1800	96 00
167	941226 0600	130 40
168	941226 1800	175 60
169	941228 0600	104 40
170	941228 1800	171 20

LLM3TSS: Pg 1,3

	Date YYMMDD hhmm	TSS mg/L
171	941229 0600	141 20
172	941230 0600	144 00
173	941230 1800	169 20
174	941231 1800	155 20
175	950101 0600	188 00
176	950102 0600	240 00
177	950102 1800	150 80
178	950103 1800	207 20
179	950104 0600	319 20
180	950105 0600	399 60
181	950105 1800	226 40
182	950106 1800	158 00
183	950107 0600	132 80
184	950107 1800	338 80
185	950108 1800	96 40
186	950109 1800	131 60
187	950115 0600	142 00
188	950115 1800	152 40
189	950117 0600	142 00
190	950117 1800	134 40
191	950120 0600	41 80
192	950120 1800	42 11
193	950122 0600	39 00
194	950122 1800	78 00
195	950124 0600	275 20
196	950124 1800	204 40
197	950126 0600	59 00
198	950126 1800	123 80
199	950130 0600	98 40
200	950130 1800	130 80
201	950201 0600	94 67
202	950201 1800	84 75
203	950203 0600	77 40
204	950203 1800	261 50
205	950205 0600	77 20
206	950205 1800	64 20
207	950207 0600	110 00
208	950209 0600	198 40
209	950209 1800	198 40
210	950210 0600	128 00
211	950210 1800	137 20
212	950212 1800	246 80
213	950214 1800	206 80
214	950215 0600	181 50
215	950216 1800	215 20
216	950217 0600	364 00
217	950218 1800	145 20
218	950220 1800	185 50
219	950222 0600	131 00
220	950224 0600	132 80
221	950224 1800	127 25
222	950226 0600	187 20
223	950226 1800	200 40
224	950228 0600	119 20
225	950228 1800	205 20
226	950302 0600	202 80
227	950302 1800	189 20
228	950304 0600	229 20
229	950304 1800	173 20
230	950306 0600	37 20
231	950306 1800	103 33
232	950308 1800	232 40
233	950310 0600	97 75
234	950310 1800	164 80
235	950312 0600	105 33
236	950312 1800	225 20
237	950316 0600	116 40
238	950316 1800	171 60
239	950318 0600	100 00
240	950318 1800	146 40
241	950320 0600	220 00
242	950320 1800	427 60
243	950322 0600	391 60
244	950322 1800	429 20
245	950324 0600	172 00
246	950324 1800	237 20
247	950326 0600	264 00
248	950326 1800	184 80
249	950328 0600	239 20
250	950328 1800	185 20
251	950406 0600	66 00
252	950406 1800	72 25
253	950408 0600	132 00
254	950408 1800	159 43
255	950410 0600	220 00

LLM3TSS: Pg 1, 4

	Date YYMMDD hhmm	TSS mg/L
256	950410 1800	174 80
257	950412 0600	136 67
258	950412 1800	81 00
259	950414 0600	33 00
260	950414 1800	95 40
261	950416 0600	176 40
262	950416 1800	232 60
263	950519 0600	258 00
264	950519 1800	165 20
265	950521 0600	131 50
266	950521 1800	162 00
267	950523 0600	162 50
268	950523 1800	193 60
269	950525 0600	139 40
270	950525 1800	153 30
271	950527 0600	163 70
272	950527 1800	173 70
273	950529 0600	143 20
274	950529 1800	169 00
275	950631 0600	224 00
276	950631 1800	79 80
277	950602 0600	106 00
278	950602 1800	144 00
279	950604 0600	186 40
280	950604 1800	184 00
281	950606 0600	198 00
282	950606 1800	178 80
283	950608 0600	162 80
284	950608 1800	196 00
285	950610 0600	136 80
286	950610 1800	122 20
287	950612 0600	59 00
288	950612 1800	94 50
289	950614 0600	54 40
290	950614 1800	56 30
291	950616 1800	94 80
292	950618 0600	66 20
293	950618 1800	53 20
294	950619 1800	71 20
295	950620 0600	71 40
296	950621 1800	118 00
297	950622 0600	65 00
298	950623 1800	132 70
299	950624 0600	77 00
300	950625 1800	61 20
301	950626 0600	55 00
302	950627 1800	71 20
303	950628 0600	119 00
304	950629 1800	160 40
305	950630 0600	74 40
306	950701 1800	76 80
307	950702 0600	82 40
308	950703 1800	175 30
309	950704 0600	280 80
310	950705 1800	212 00
311	950706 1800	169 30
312	950707 0600	142 30
313	950708 1800	90 00
314	950709 0600	112 30
315	950710 1800	90 00
316	950711 0600	162 70
317	950712 1800	112 00
318	950713 0600	144 00
319	950714 1800	108 00
320	950715 0600	143 00
321	950716 1800	150 00
322	950717 0600	158 30
323	950718 1800	88 00
324	950719 0600	149 00
325	950720 1800	132 00
326	950721 0600	194 30
327	950722 1800	252 40
328	950723 0600	308 00
329	950724 1800	225 20
330	950725 0600	158 00
331	950726 1800	163 70
332	950727 0600	94 00
333	950818 1800	28 67
334	950819 0600	50 00
335	950820 1800	23 30
336	950821 0600	41 67
337	950822 1800	43 00
338	950823 0600	45 33
339	950824 1800	26 00
340	950825 0600	54 30

LIM3TSS: Pg 1, 5

	Date YYMMDD hhmm	TSS mg/L
341	950826 1800	65 67
342	950827 0600	43 67
343	950828 1800	52 67
344	950829 0600	20 00
345	950830 1800	37 33
346	950831 0600	37 00
347	950901 1800	17 00
348	950902 0600	34 33
349	950903 1800	45 33
350	950904 0600	27 33
351	950905 1800	48 67
352	950906 0600	49 67
353	950907 1800	55 67
354	950908 0600	41 00
355	950909 1800	52 67
356	950910 0600	35 67
357	950911 1800	58 33
358	950912 0600	46 67
359	950913 1800	44 67
360	950914 0600	47 67
361	950915 1800	58 33
362	950916 0600	55 00
363	950917 1800	158 33
364	950918 0600	137 00
365	951002 1800	22 67
366	951003 0600	66 33
367	951003 1800	83 33
368	951004 0600	24 67
369	951004 1800	19 33
370	951005 0600	25 00
371	951005 1800	24 67
372	951006 0600	32 33
373	951006 1800	28 33
374	951007 0600	31 33
375	951007 1800	22 00
376	951008 0600	16 67
377	951008 1800	11 00
378	951009 0600	30 00
379	951009 1800	10 33
380	951010 0600	27 33
381	951010 1800	13 33
382	951011 0600	15 33
383	951011 1800	22 00
384	951012 0600	53 67
385	951012 1800	28 33
386	951013 0600	42 33
387	951013 1800	39 00
388	951014 0600	43 00
389	951022 0600	48 40
390	951022 1800	74 00
391	951024 0600	30 33
392	951024 1800	49 00
393	951026 0600	34 33
394	951026 1800	62 33
395	951028 0600	24 00
396	951028 1800	86 67
397	951030 0600	35 67
398	951030 1800	22 67
399	951101 0600	39 33
400	951101 1800	70 33
401	951103 0600	94 33
402	951103 1800	215 20
403	951105 0600	166 00
404	951105 1800	36 33
405	951107 1000	25 67
406	951107 1800	14 40
407	951109 0600	18 67
408	951109 1800	34 33
409	951111 0600	55 67
410	951111 1800	212 00
411	951113 0600	34 00
412	951113 1800	35 00
413	951115 0600	20 33
414	951115 1800	29 33
415	951117 0600	86 33
416	951117 1800	53 00
417	951119 0600	35 33
418	951119 1800	23 00
419	951121 0600	25 67
420	951122 0600	20 00
421	951122 1800	14 67
422	951124 0600	61 00
423	951124 1800	39 33
424	951126 0600	27 67
425	951126 1800	34 67

LLM3TSS: Pg 1,6

	Date YYMMDD hhmm	TSS mg/L
426	951128 0600	24 67
427	951128 1800	157 60
428	951130 0600	17 67
429	951201 0600	20 00
430	951201 1800	20 00
431	951203 0600	20 67
432	951203 1800	37 33
433	951205 0600	55 00
434	951205 1800	53 67
435	951207 0600	27 00
436	951207 1800	56 00
437	951209 0600	130 80
438	951209 1800	251 50
439	951211 0600	55 67
440	951211 1800	38 33
441	951213 0600	23 40
442	951213 1800	33 60
443	951215 0600	23 40
444	951215 1800	23 60
445	951217 0600	44 20
446	951217 1800	119 60
447	951219 0600	92 80
448	951219 1800	47 33
449	951221 0600	39 67
450	951221 1800	55 00
451	951223 0600	116 80
452	951223 1800	141 50
453	951225 0600	72 00
454	951225 1800	151 00
455	951227 0600	26 33
456	951228 0600	30 00
457	951228 1800	33 00
458	951230 0600	23 67
459	951230 1800	18 20
460	960101 0600	14 20
461	960101 1800	19 20
462	960103 0600	53 00
463	960103 1800	32 33
464	960105 0600	22 67
465	960105 1800	19 60
466	960107 0600	252 50
467	960107 1800	59 33
468	960109 0600	19 60
469	960111 0600	13 60
470	960111 1800	34 33
471	960113 0600	24 33
472	960113 1800	21 33
473	960115 1800	35 67
474	960117 0600	33 67
475	960117 1800	243 20
476	960119 0600	169 50
477	960119 1800	36 00
478	960121 0600	50 67
479	960121 1800	23 67
480	960123 0600	44 33
481	960123 1800	122 00
482	960125 0600	54 40
483	960125 1800	52 00
484	960127 0600	46 67
485	960127 1800	45 33
486	960129 0600	43 00
487	960129 1800	49 67
488	960131 0600	59 00
489	960201 0600	85 67
490	960201 1800	134 50
491	960203 0600	137 33
492	960203 1800	173 50
493	960213 1800	38 20
494	960215 0600	79 00
495	960215 1800	63 67
496	960217 0600	33 40
497	960217 1800	68 67
498	960219 0600	34 40
499	960219 1800	69 67
500	960221 0600	84 33
501	960221 1800	145 00
502	960223 0600	39 80
503	960223 1800	55 00
504	960227 0600	60 67
505	960227 1800	57 00
506	960229 0600	254 00
507	960229 1800	430 00
508	960302 0600	62 33
509	960302 1800	42 33
510	960304 0600	36 33

LLM3TSS: Pg 1, 7

	Date YYMMDD hhmm	TSS mg/L
511	960306 0600	61 33
512	960306 1800	60 67
513	960308 0600	529 00
514	960308 1800	475 80
515	960310 0600	170 67
516	960310 1800	92 00
517	960312 0600	45 33
518	960312 1800	63 67
519	960314 0600	56 33
520	960314 1800	117 60
521	960315 0600	107 20
522	960316 0600	34 00
523	960316 1800	48 67
524	960318 0600	60 33
525	960318 1800	234 50
526	960320 0600	44 00
527	960320 1800	86 00
528	960322 0600	73 60
529	960322 1800	150 50
530	960324 0600	118 00
531	960326 0600	217 33
532	960326 1800	474 00
533	960328 0600	123 00
534	960328 1800	64 00
535	960330 0600	44 00
536	960330 1800	40 00
537	960401 0600	85 33
538	960401 1800	91 20
539	960403 0600	111 20
540	960403 1800	122 00
541	960405 0600	72 67
542	960406 0600	435 00
543	960406 1800	211 33
544	960408 0600	51 67
545	960408 1800	68 00
546	960410 0600	109 60
547	960410 1800	172 50
548	960412 0600	420 00
549	960412 1800	355 00
550	960414 0600	78 00
551	960414 1800	155 50
552	960416 0600	59 00
553	960417 1800	129 60
554	960419 0600	160 00
555	960419 1800	208 67
556	960421 0600	195 33
557	960421 1800	344 67
558	960423 0600	236 00
559	960423 1800	292 00
560	960425 0600	148 50
561	960425 1800	297 33
562	960427 0600	139 50
563	960427 1800	150 00
564	960429 0600	119 33
565	960429 1800	459 00
566	960501 0600	275 00
567	960501 1800	292 67
568	960503 0600	125 50
569	960503 1800	110 00
570	960505 0600	183 50
571	960505 1800	174 00
572	960507 0600	182 60
573	960507 1800	141 60
574	960509 0600	185 40
575	960515 0600	185 20
576	960517 0600	144 40
577	960525 0600	72 91
578	960531 0600	52 50
579	960602 0600	69 65

LLM2aTSS: Pg 1,1

	Date(X) YMMDD hhmmin	TSS(Y) mg/L
1	960604 1800	115.56
2	960605 0600	97.35
3	960606 1800	24.00
4	960607 0600	13.60
5	960608 1800	15.00
6	960609 0600	21.20
7	960610 1800	13.60
8	960611 0600	13.60
9	960612 1800	17.76
10	960613 0600	14.56
11	960615 0600	12.13
12	960615 1800	17.02
13	960617 0600	16.60
14	960617 1800	11.67
15	960619 0600	10.61
16	960619 1800	13.60
17	960621 0600	11.20
18	960622 0600	15.60
19	960622 1800	21.60
20	960623 0600	9.60
21	960623 1800	11.40
22	960625 0600	8.40
23	960625 1800	19.07
24	960627 0600	11.40
25	960629 0600	12.98
26	960629 1800	18.95
27	960701 0600	16.04
28	960701 1800	17.96
29	960703 0600	11.80
30	960703 1800	14.20
31	960705 0600	12.94
32	960705 1800	20.80
33	960707 0600	10.80
34	960707 1800	12.55
35	960709 0600	19.00
36	960711 0600	20.85
37	960711 1800	23.40
38	960713 0600	14.26
39	960713 1800	16.67
40	960715 0600	14.17
41	960715 1800	15.62
42	960717 0600	17.14
43	960717 1800	17.08
44	960719 0600	23.75
45	960719 1800	15.00
46	960721 0600	18.37
47	960721 1800	16.46
48	960802 0600	13.00
49	960802 1800	42.00
50	960804 0600	34.50
51	960804 1800	31.05
52	960806 0600	19.33
53	960806 1800	17.19
54	960808 0600	18.71
55	960808 1800	12.00
56	960810 0600	15.16
57	960810 1800	16.00
58	960812 0600	14.52
59	960812 1800	23.94
60	960814 1800	41.15
61	960816 0600	48.50
62	960816 1800	45.56
63	960818 0600	22.12
64	960818 1800	19.39
65	960820 0600	24.57
66	960820 1800	15.83
67	960822 0600	19.00
68	960822 1800	20.00
69	960822 1800	24.36
70	960824 0600	48.89
71	960824 1800	21.54
72	960826 0600	12.31
73	960826 1800	10.21
74	960828 0600	14.31
75	960904 0600	14.31
76	960904 1800	9.61
77	960906 0600	12.60
78	960906 1800	8.82
79	960908 0600	14.51
80	960908 1800	14.31
81	960910 0600	18.63
82	960910 1800	10.39
83	960912 0600	10.98
84	960912 1800	14.31
85	960914 0600	13.73

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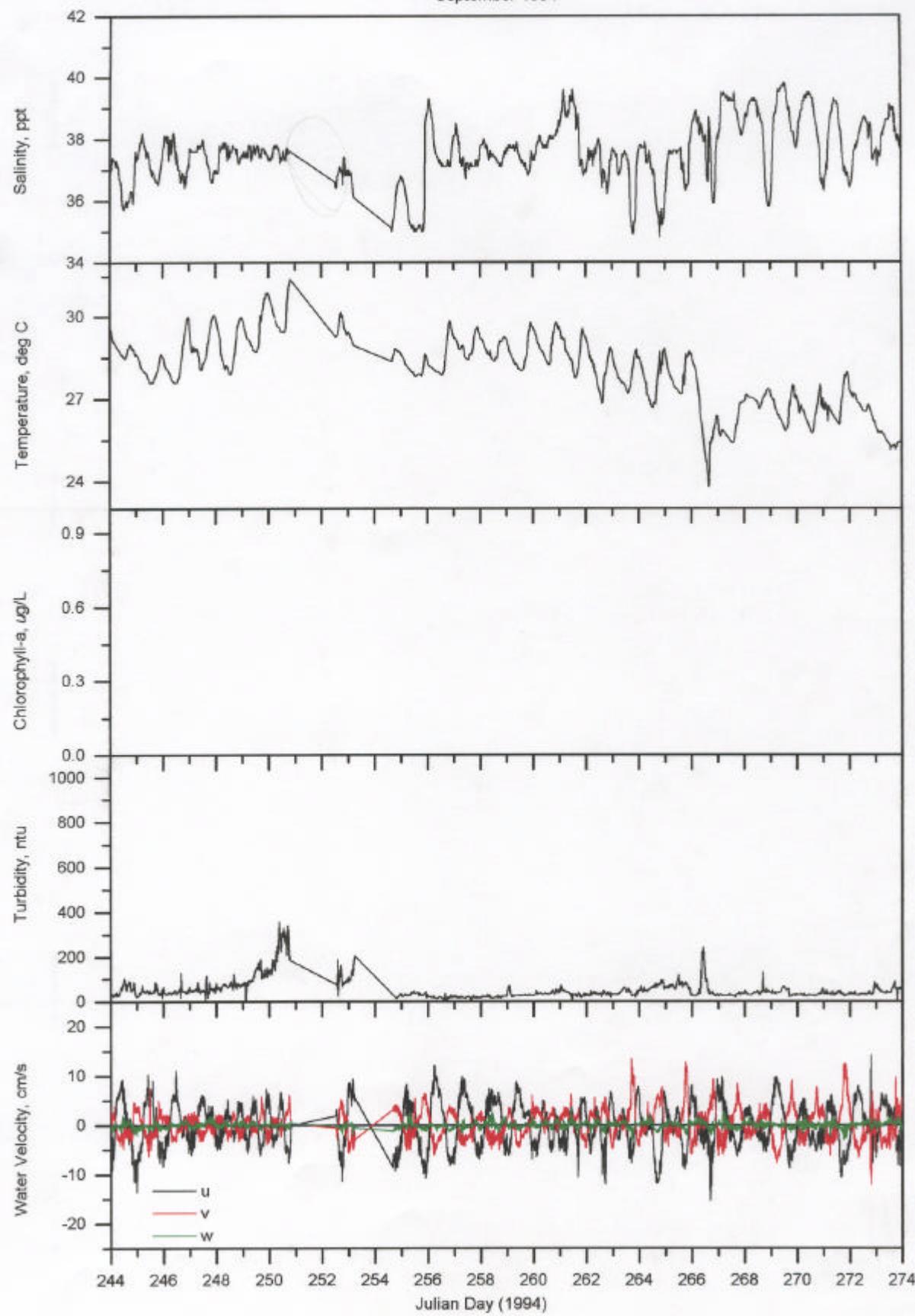
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90	960918 1800	18.04
91	960920 0600	9.22
92	960920 1600	29.22
93	960922 0600	12.55
94	960922 1800	6.67
95	960924 0600	8.24
96	960924 1800	13.14
97	960926 0600	13.00
98	960926 1800	14.71
99	960928 0600	66.53
100	960928 1800	13.60
101	960930 0600	14.40
102	960930 1800	9.40
103	961002 0600	10.93
104	961002 1800	6.60
105	961004 0600	13.53
106	961004 1800	13.60
107	961006 0600	64.89
108	961006 1800	51.04
109	961008 0600	6.47
110	961008 1800	10.58
111	961011 0600	10.61
112	961011 1800	4.69
113	961013 0600	10.20
114	961013 1800	8.78
115	961015 0600	8.98
116	961015 1800	12.86
117	961017 0600	5.10
118	961017 1800	14.90
119	961022 0600	17.71
120	961022 1800	40.22
121	961024 0600	12.77
122	961024 1800	7.76
123	961026 0600	8.20
124	961026 1800	14.40
125	961028 0600	6.20
126	961028 1800	7.12
127	961030 1800	13.53
128	961031 0600	23.10
129	961031 1800	19.58
130	961102 0600	126.21
131	961102 1800	46.09
132	961104 0600	15.71
133	961104 1800	12.17
134	961106 0600	15.22
135	961108 1800	75.22
136	961108 0600	60.95
137	961109 0600	17.66
138	961109 1800	8.46
139	961111 0600	11.92
140	961111 1800	10.77
141	961113 0600	18.49
142	961113 1800	14.63
143	961115 0600	15.48
144	961115 1800	20.74
145	961117 0600	20.37
146	961117 1800	16.00
147	961119 0600	18.91
148	961119 1800	15.09
149	961121 0600	15.85
150	961121 1800	14.72
151	961123 0600	8.75
152	961123 1800	19.81
153	961125 0600	42.94
154	961125 1800	29.43
155	961127 0600	13.54
156	961127 1800	16.92
157	961129 0600	10.37
158	961129 1800	14.55
159	961201 0600	17.04
160	961201 1800	17.59
161	961203 0600	15.37
162	961203 1800	17.22
163	961205 0600	11.32
164	961205 1800	12.96
165	961207 1800	18.70
166	961210 0600	22.62
167	961210 1800	21.50
168	961212 0600	31.70
169	961212 1800	20.00
170	961214 0600	26.11

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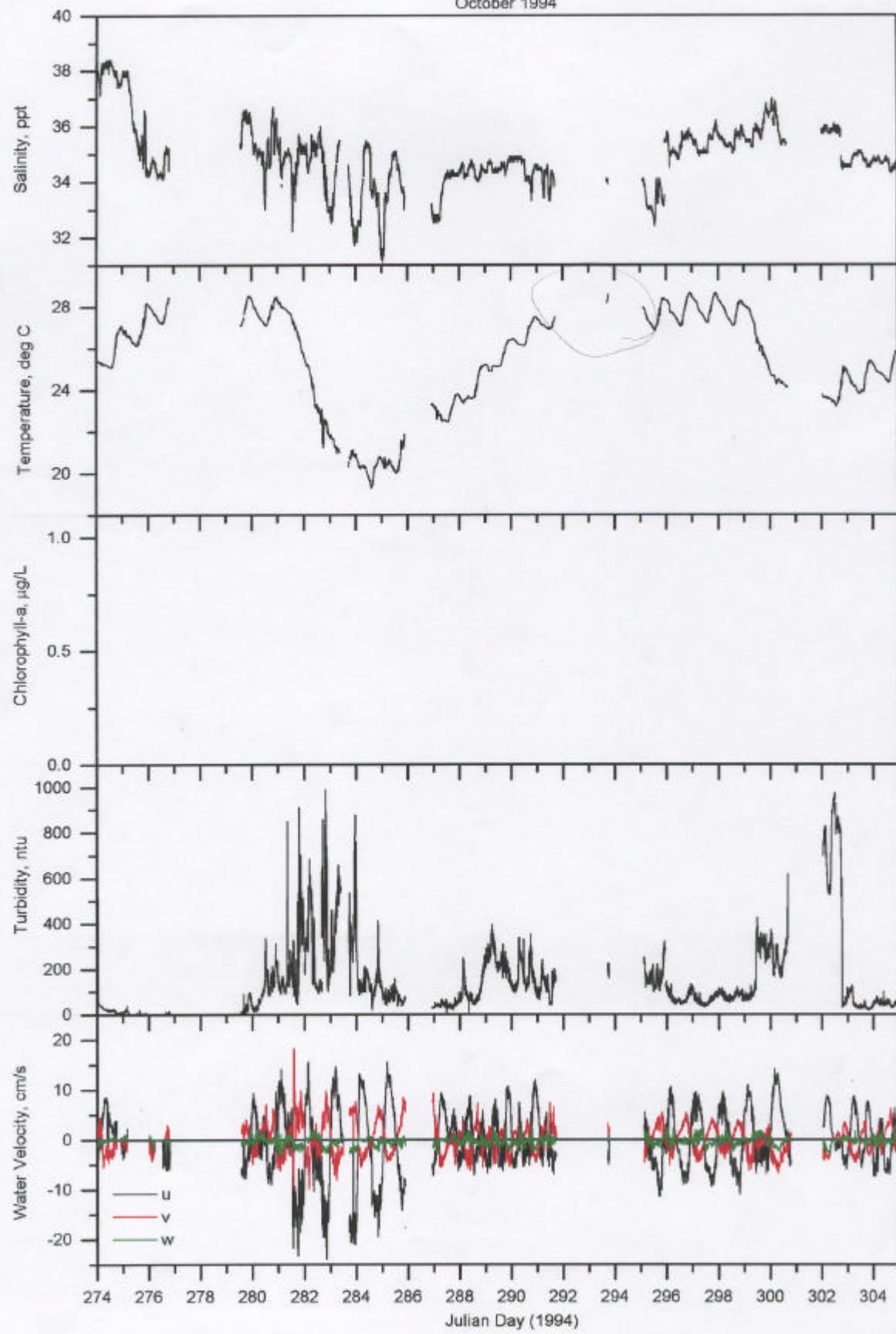
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172	961216 0600	294.81
173	961216 1800	273.92
174	961218 0600	51.15
175	961218 1800	491.37
176	961220 0600	60.58
177	961220 1800	37.65
178	961221 0600	12.34
179	961221 1800	15.93
180	961223 0600	11.67
181	961223 1800	24.91
182	961225 0600	69.15
183	961225 1800	28.33
184	961227 0600	10.74
185	961227 1800	6.48
186	961229 0600	11.30
187	961229 1800	13.33
188	961231 0600	9.44
189	961231 1800	12.96
190	970104 0600	81.63
191	970104 1800	1.63
192	970106 1800	441.28
193	970108 0600	315.12
194	970108 1800	142.34
195	970110 0600	55.32
196	970111 0600	17.35
197	970111 1800	63.06
198	970113 0600	381.74
199	970123 0600	14.55
200	970123 1800	13.33
201	970125 0600	10.00
202	970125 1800	19.43
203	970127 0600	15.56
204	970127 1800	9.81
205	970129 0600	52.08
206	970129 1800	21.32
207	970131 0600	19.26
208	970131 1800	20.55
209	970202 0600	22.78
210	970202 1800	16.36
211	970204 0600	13.40
212	970204 1800	14.72
213	970206 0600	14.44
214	970206 1800	11.45
215	970208 0600	112.77
216	970208 1800	44.04
217	970210 0600	53.26
218	970210 1800	138.91
219	970215 0600	68.49
220	970215 1800	21.28
221	970217 0600	13.40
222	970217 1800	15.28
223	970219 0600	14.04
224	970219 1800	23.26
225	970221 0600	12.18
226	970221 1800	13.40
227	970223 0600	25.51
228	970223 1800	15.31
229	970225 0600	16.36
230	970226 0600	57.59
231	970226 1800	45.00
232	970228 0600	12.60
233	970228 1800	34.26
234	970302 0600	92.05
235	970302 1800	28.44
236	970304 0600	12.80
237	970304 1800	38.98
238	970306 0600	104.69
239	970306 1800	23.88
240	970308 0600	24.91
241	970308 1800	29.63
242	970310 0600	20.00
243	970310 1800	18.93
244	970312 0600	25.19
245	970316 0600	36.85
246	970316 1800	31.09
247	970318 0600	29.09
248	970320 0600	16.61
249	970320 1800	15.38
250	970322 0600	21.51
251	970322 1800	16.67
252	970324 0600	14.18
253	970324 1800	28.65
254	970326 0600	48.04
255	970326 1800	35.43

Chapter 4: Graphs

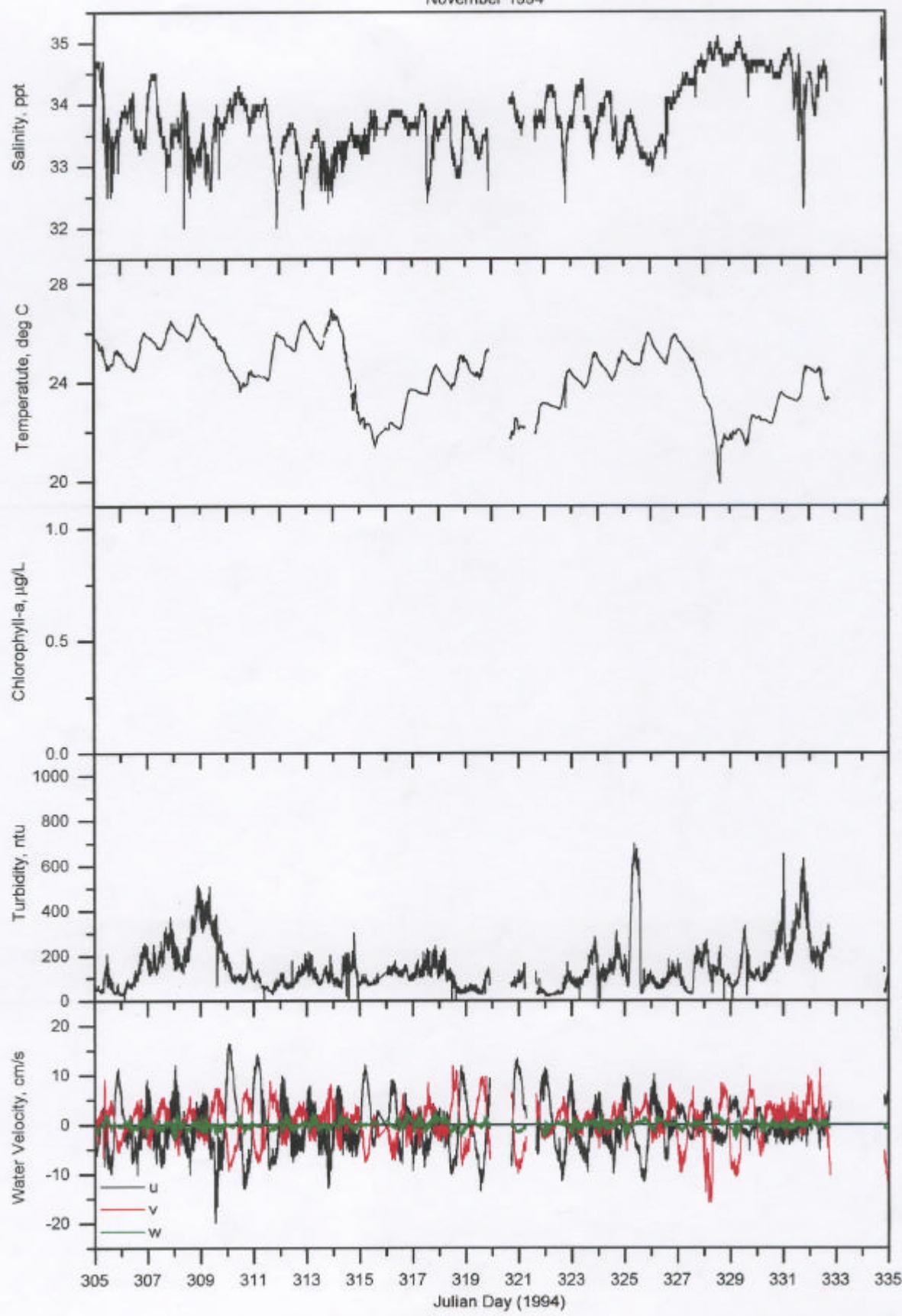
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September 1994



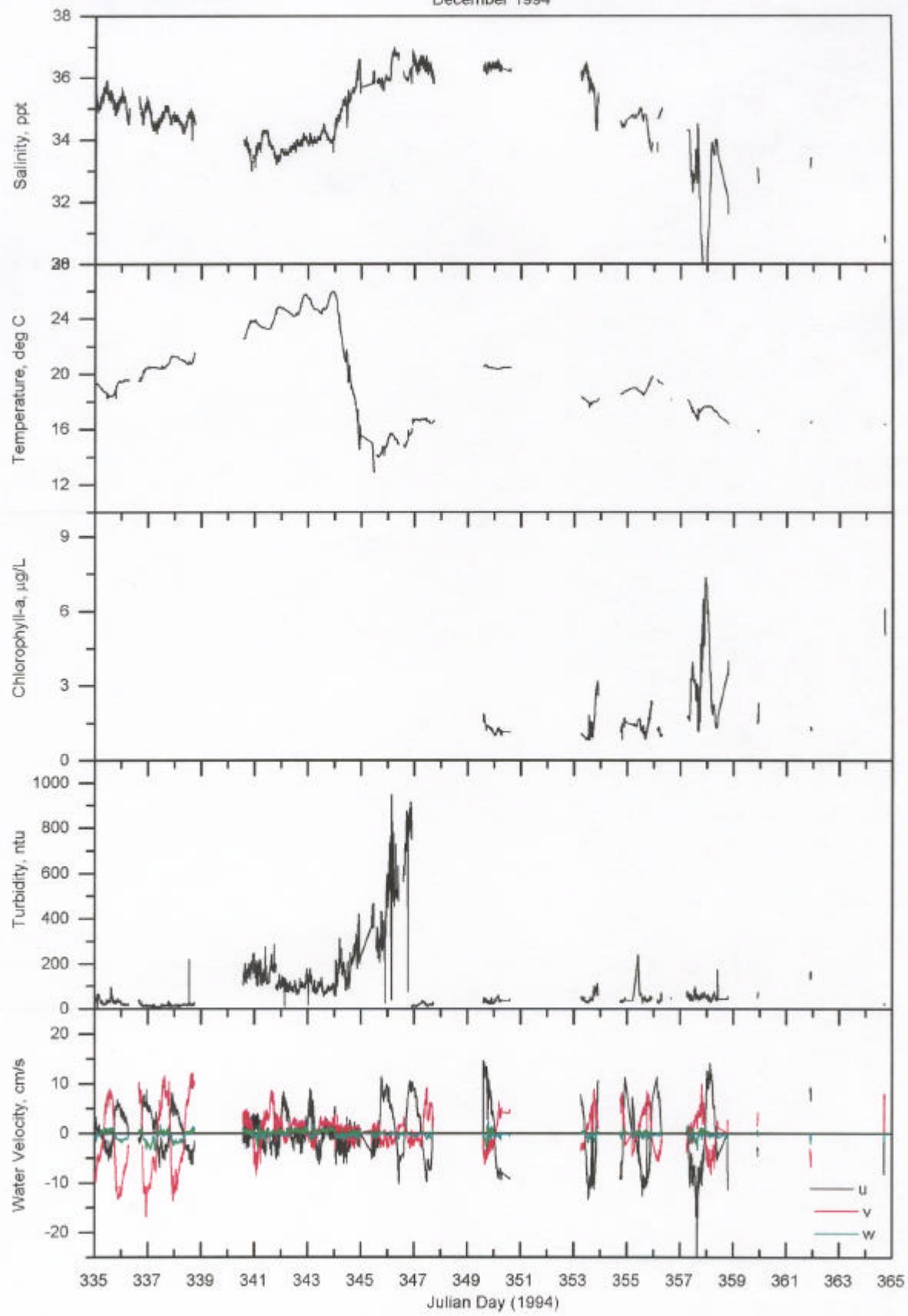
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October 1994



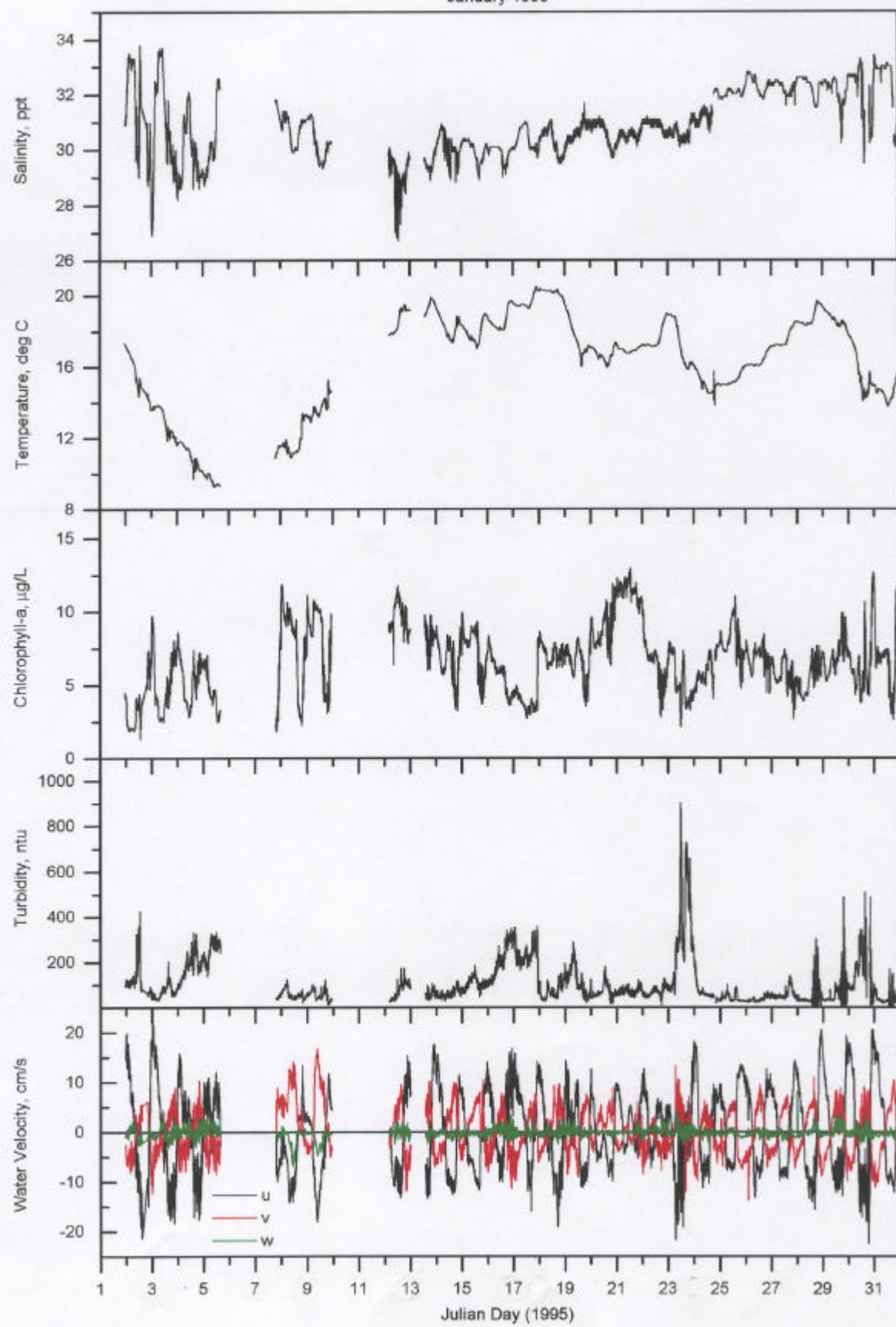
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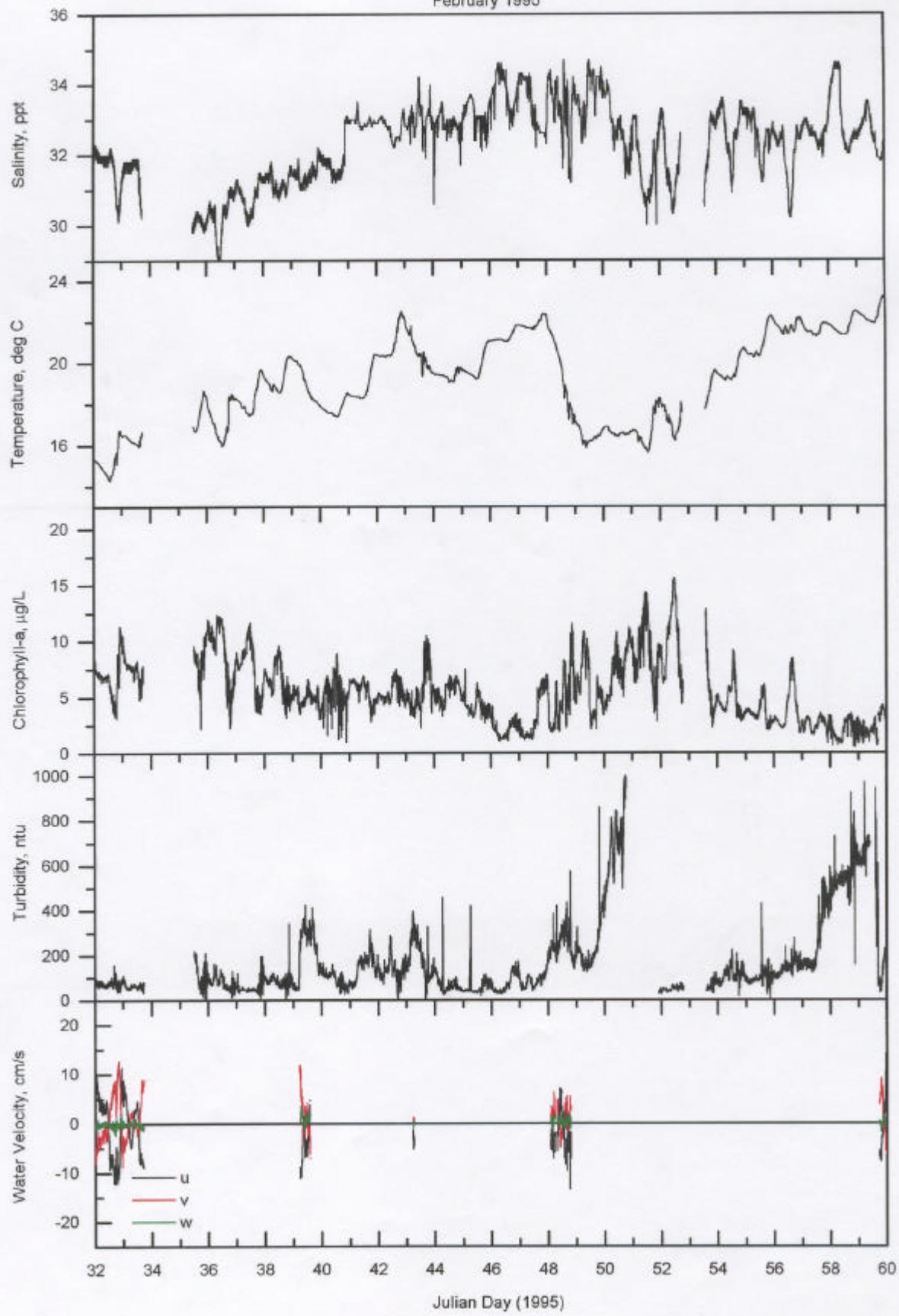
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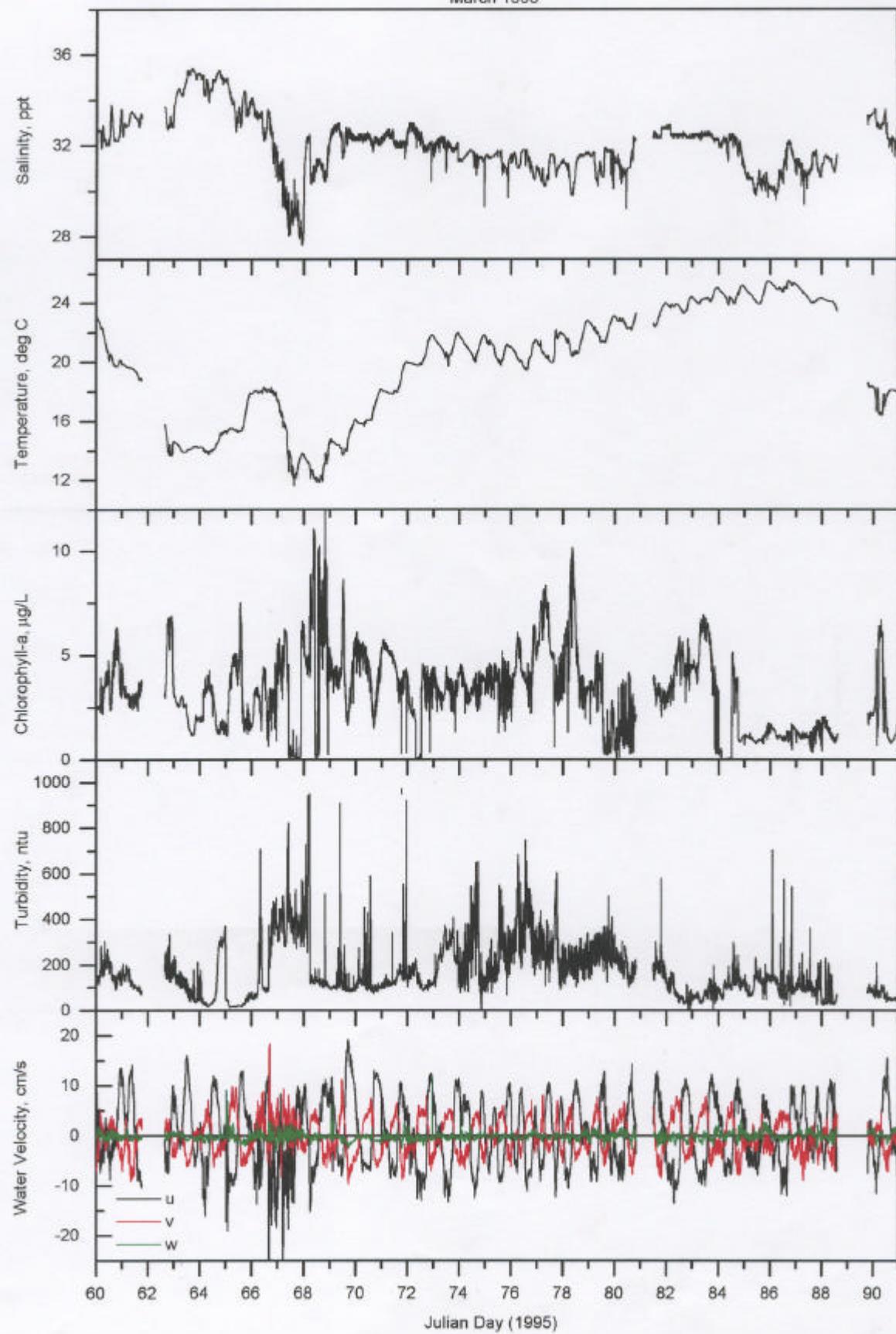
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January 1995



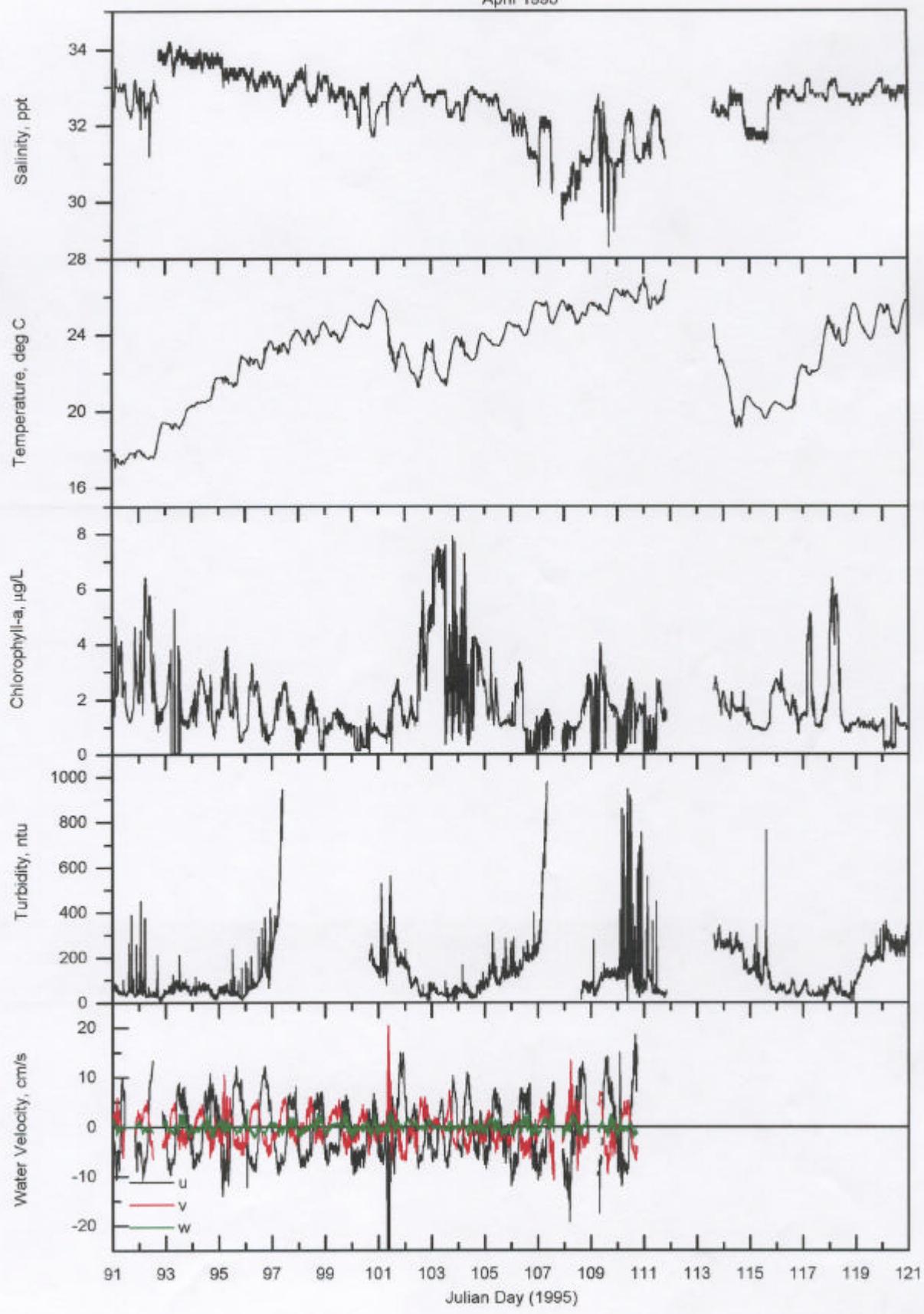
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February 1995



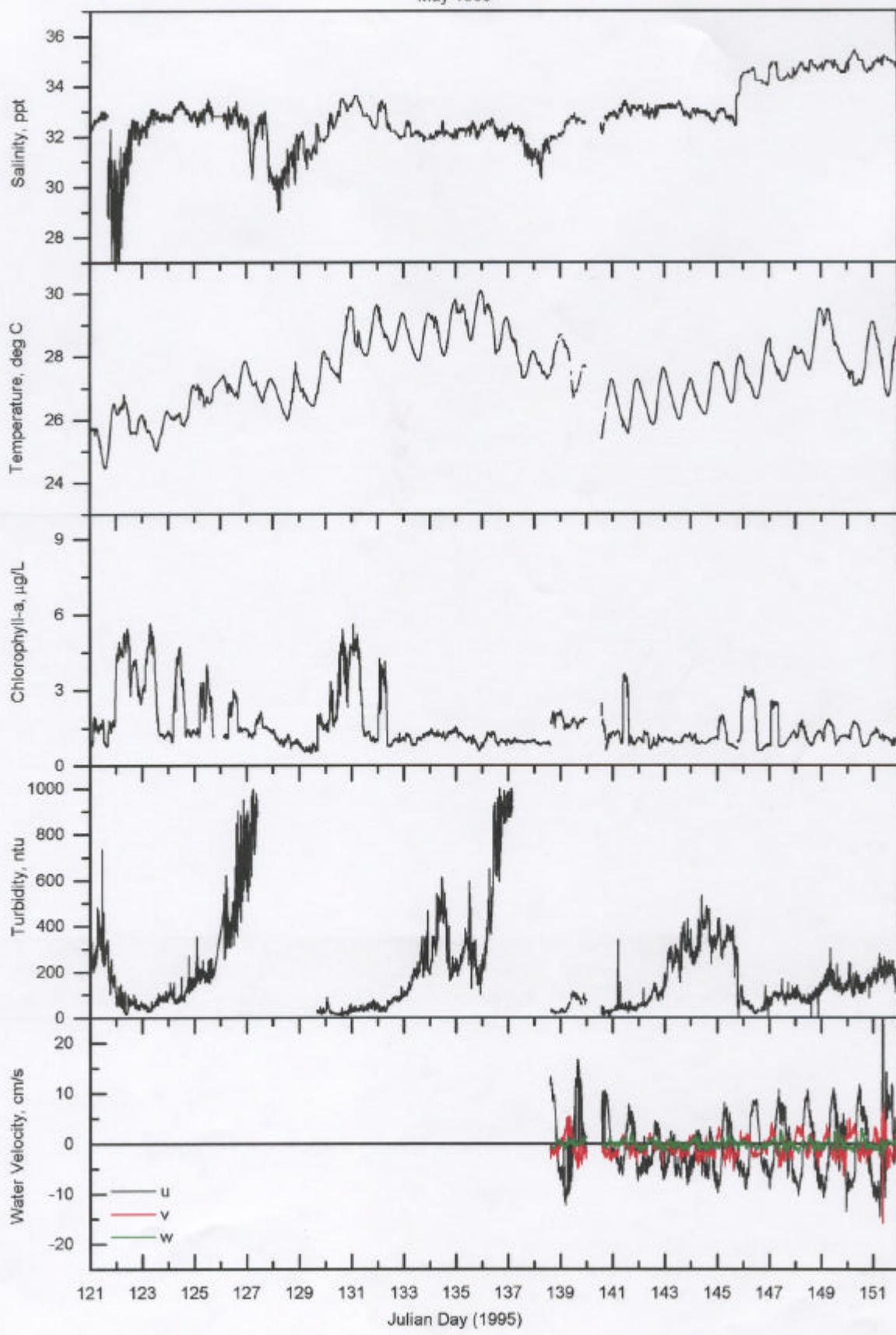
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March 1995



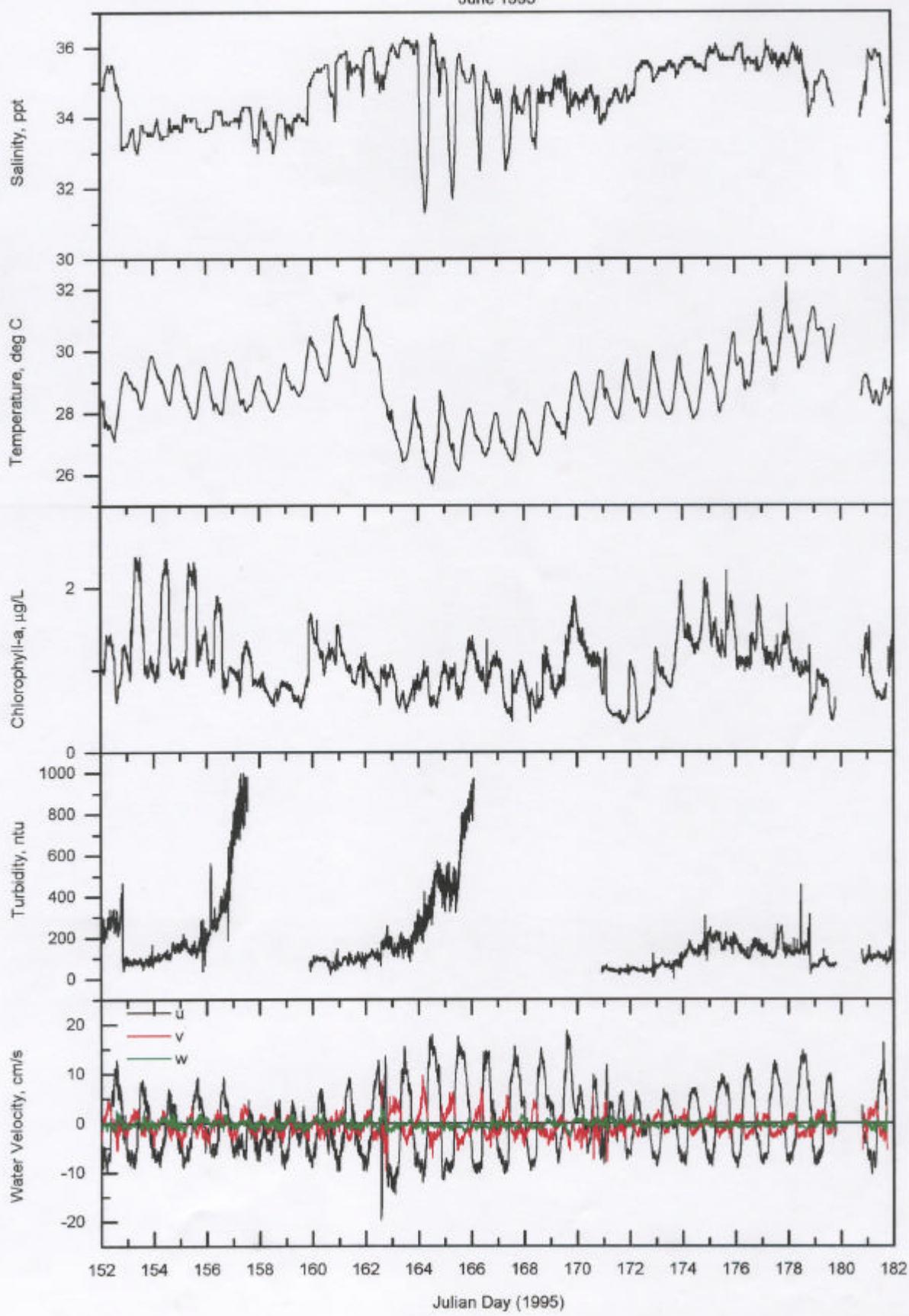
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April 1995



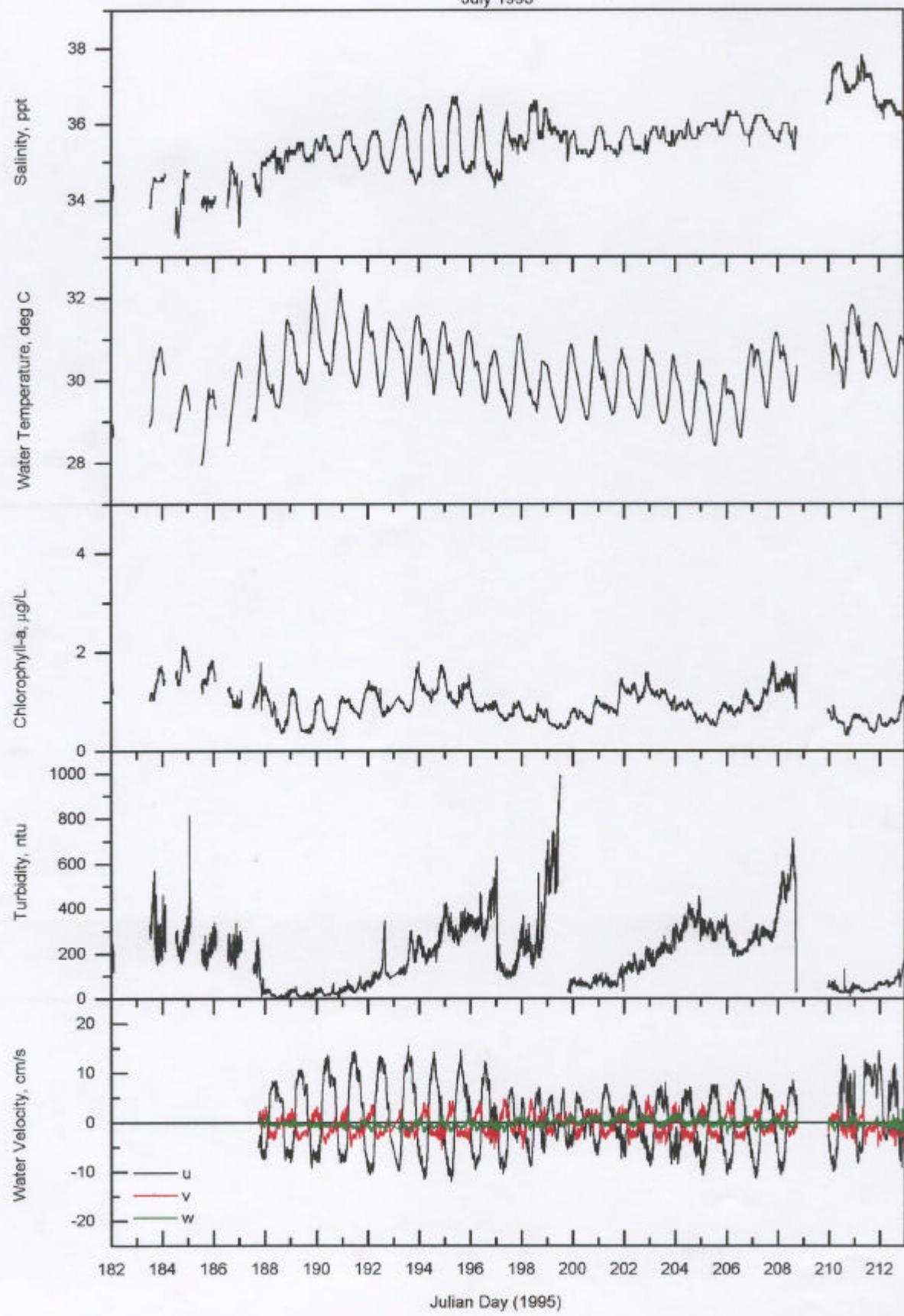
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May 1995



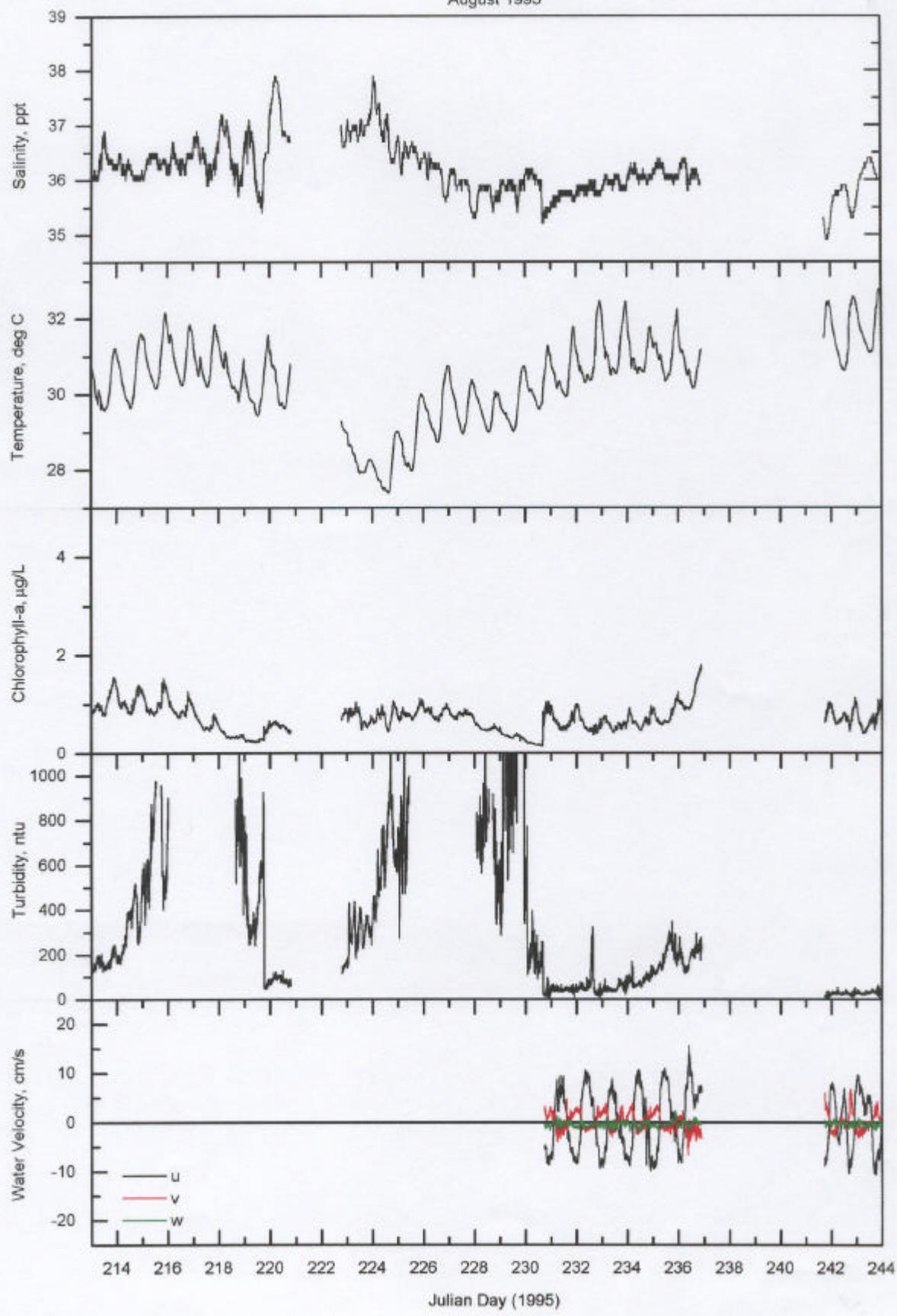
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June 1995



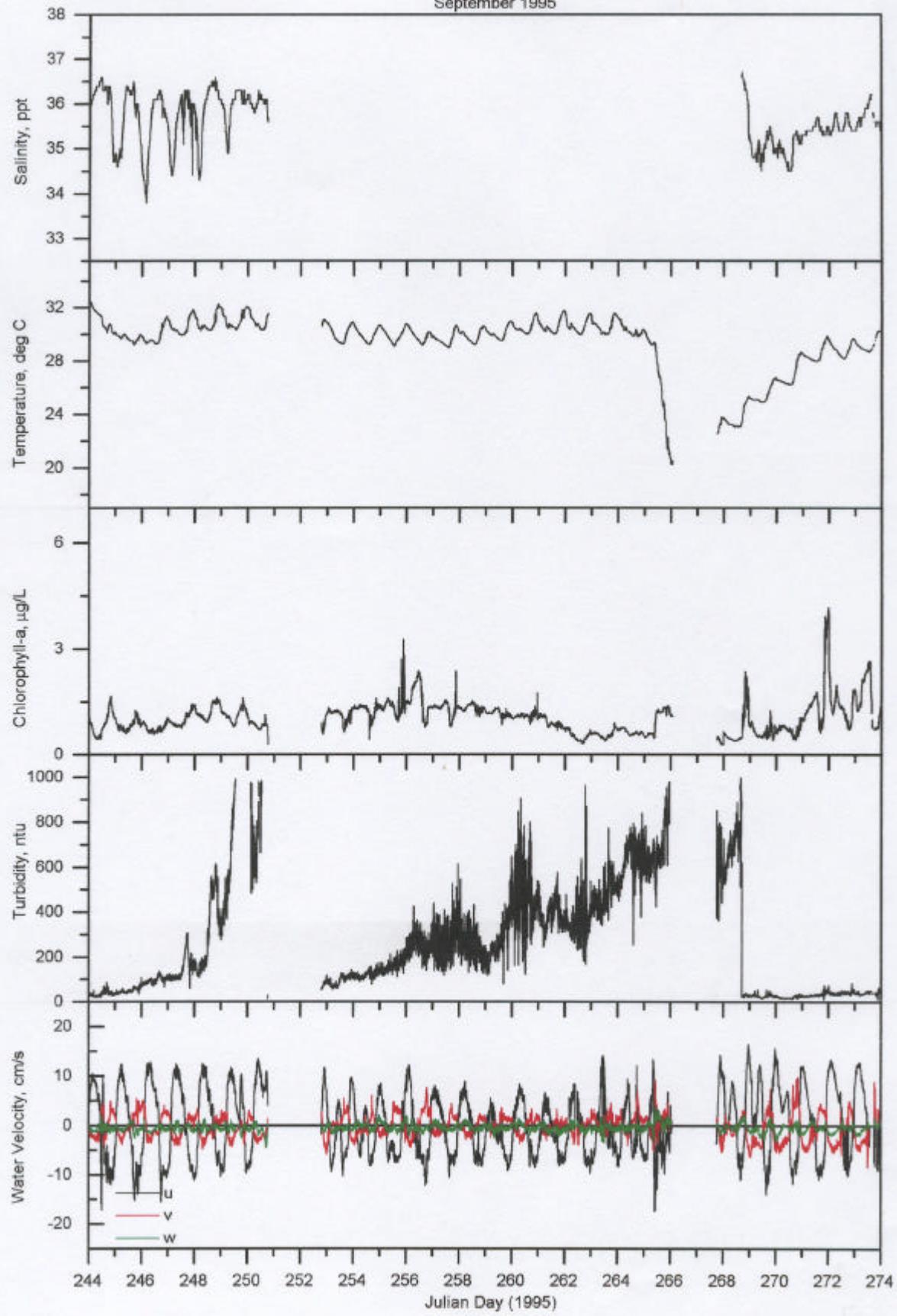
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July 1995



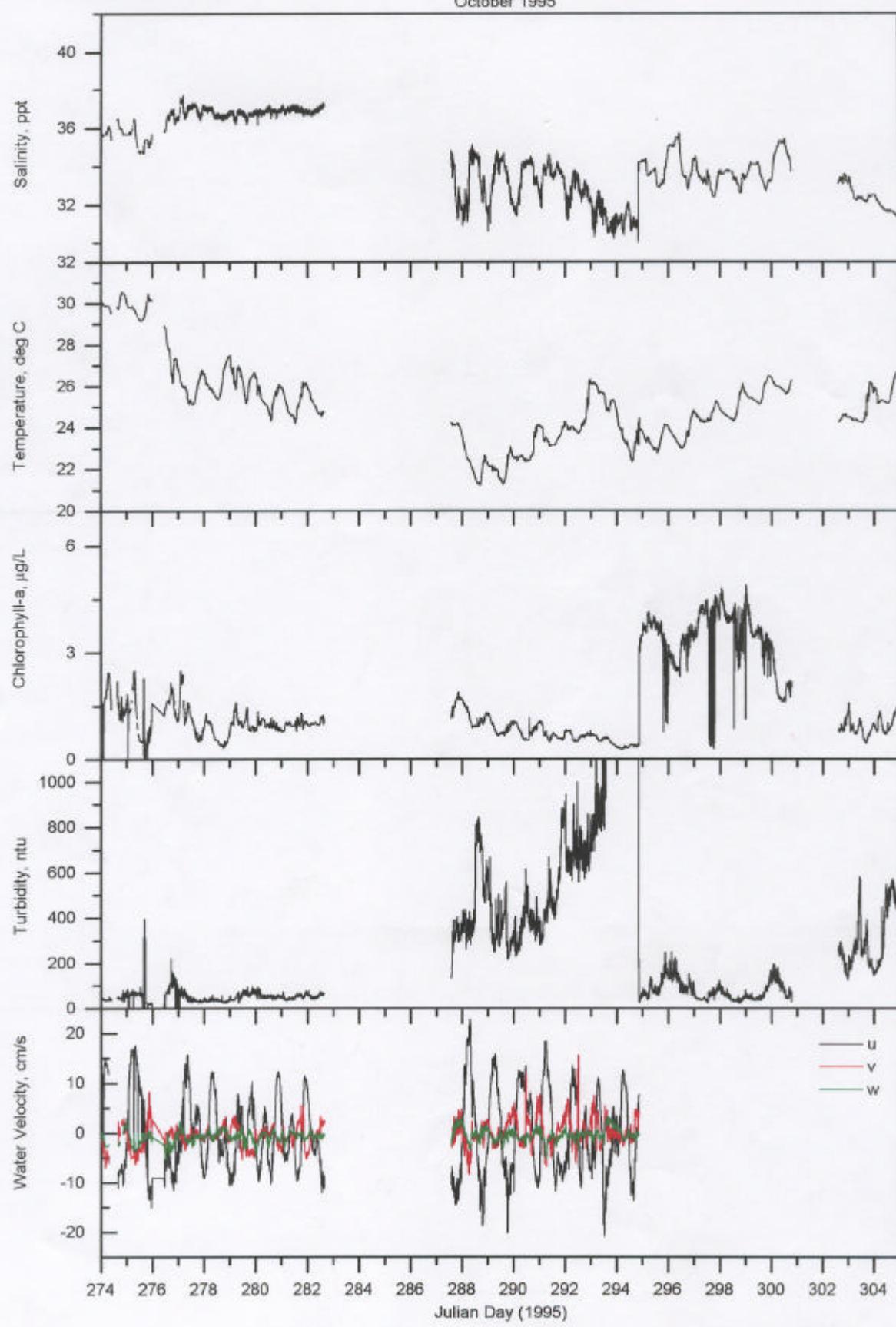
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August 1995



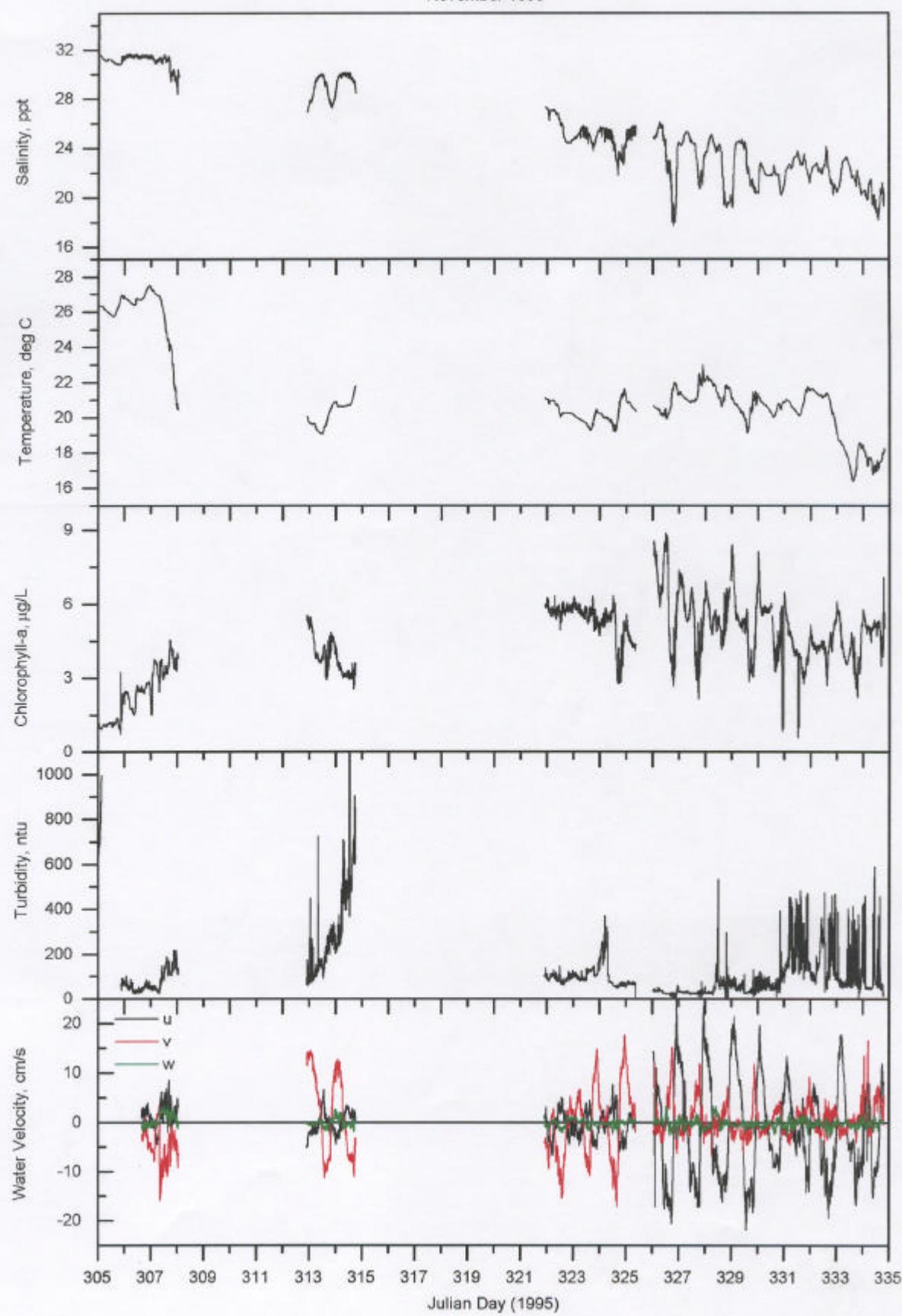
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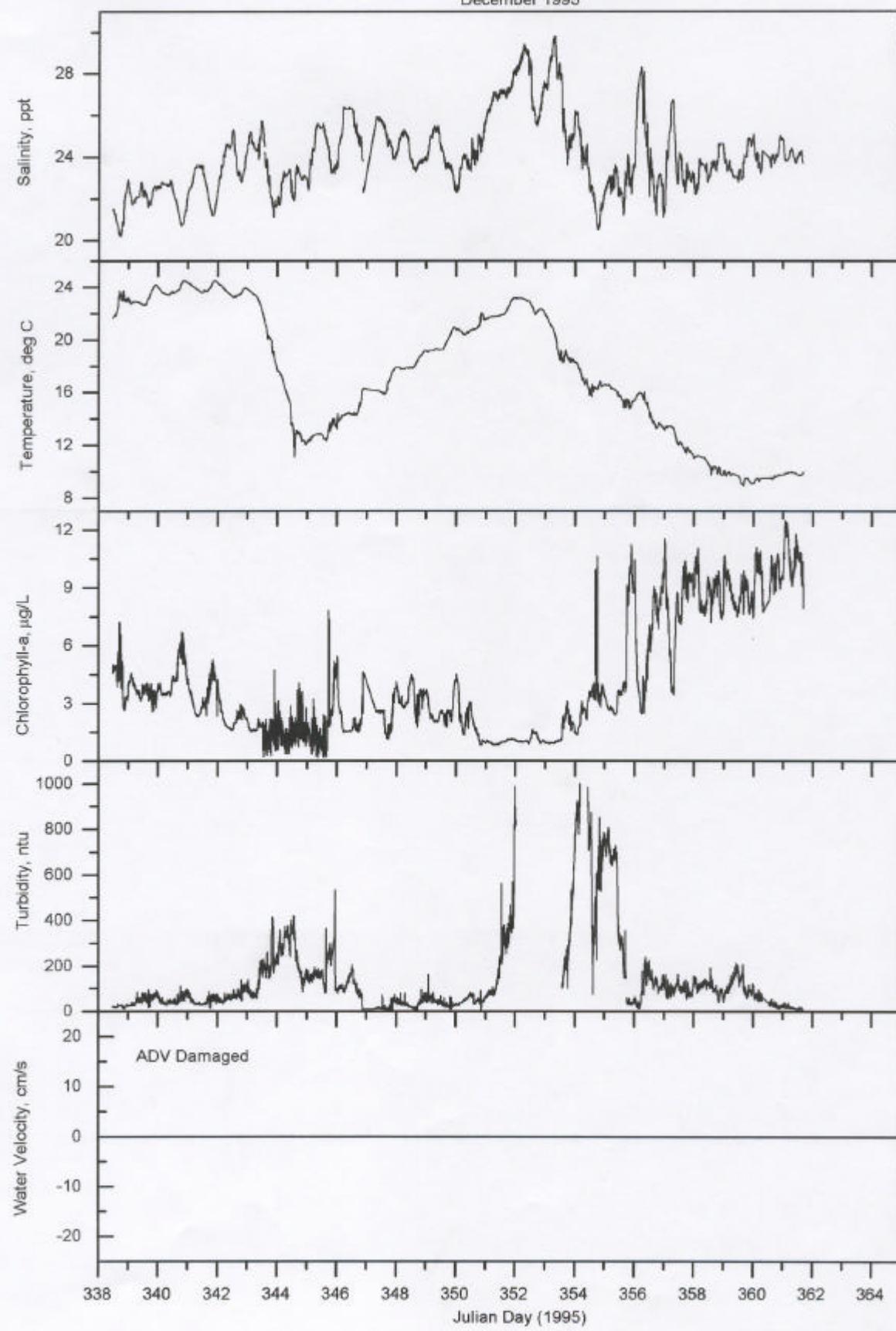
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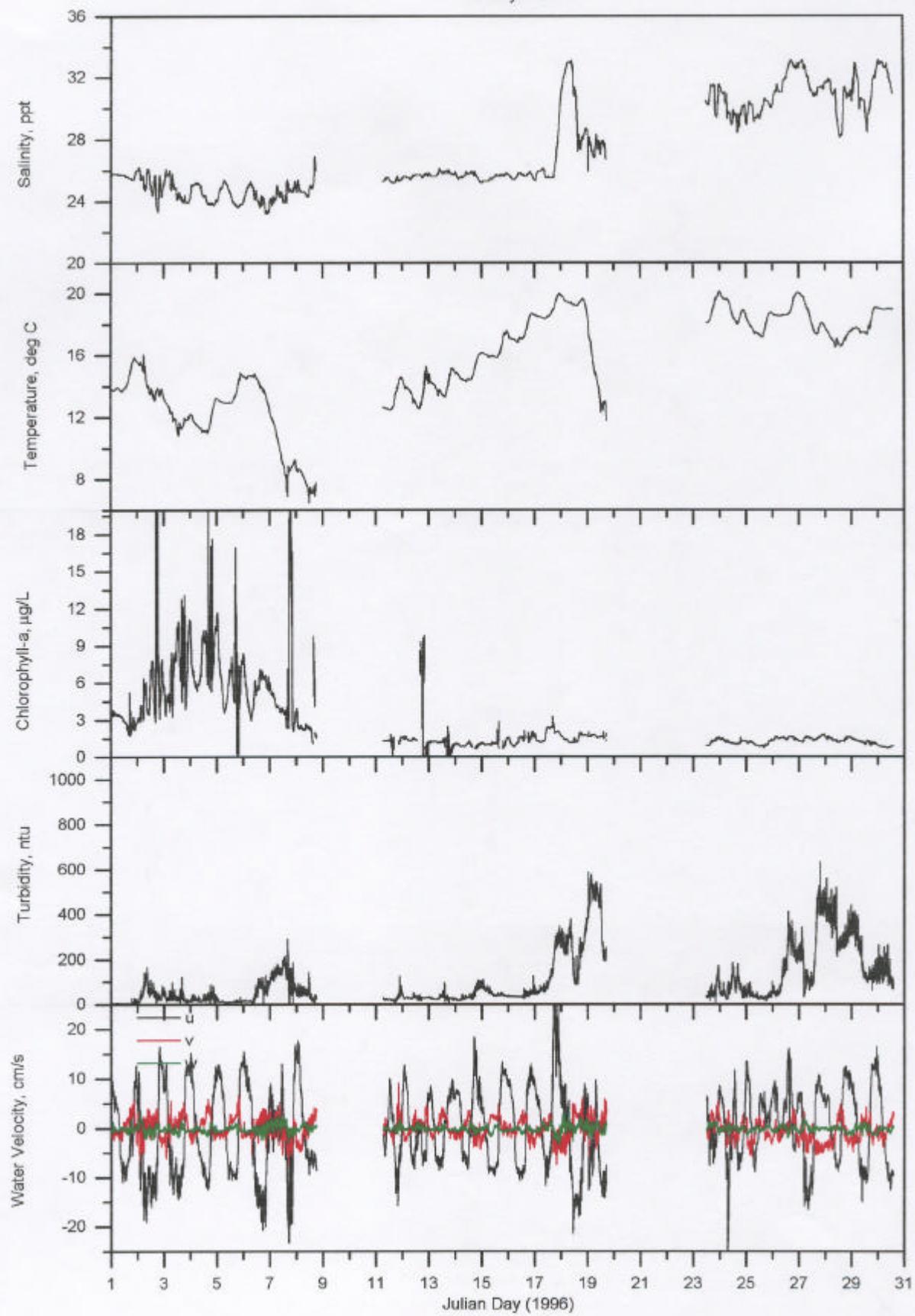
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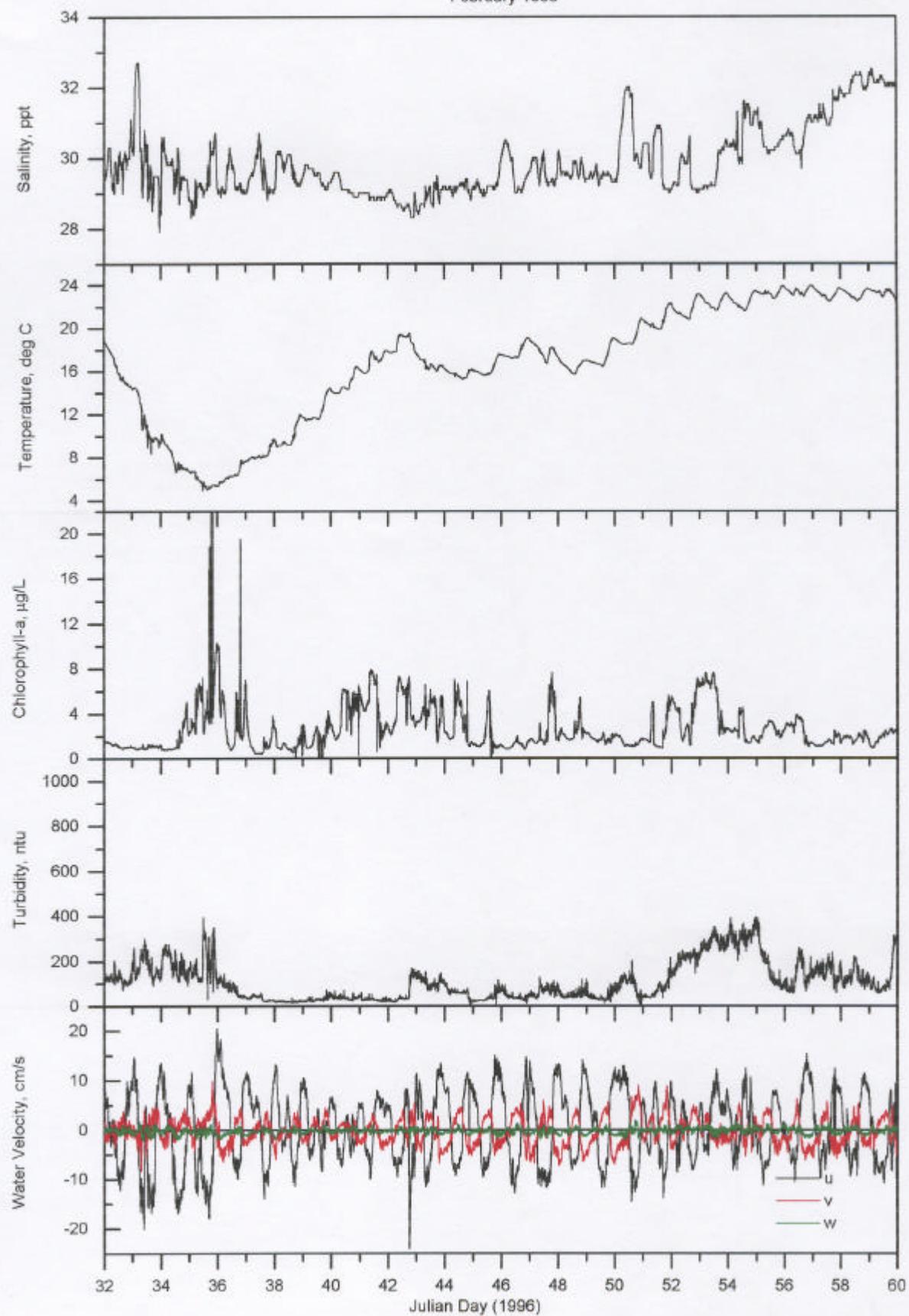
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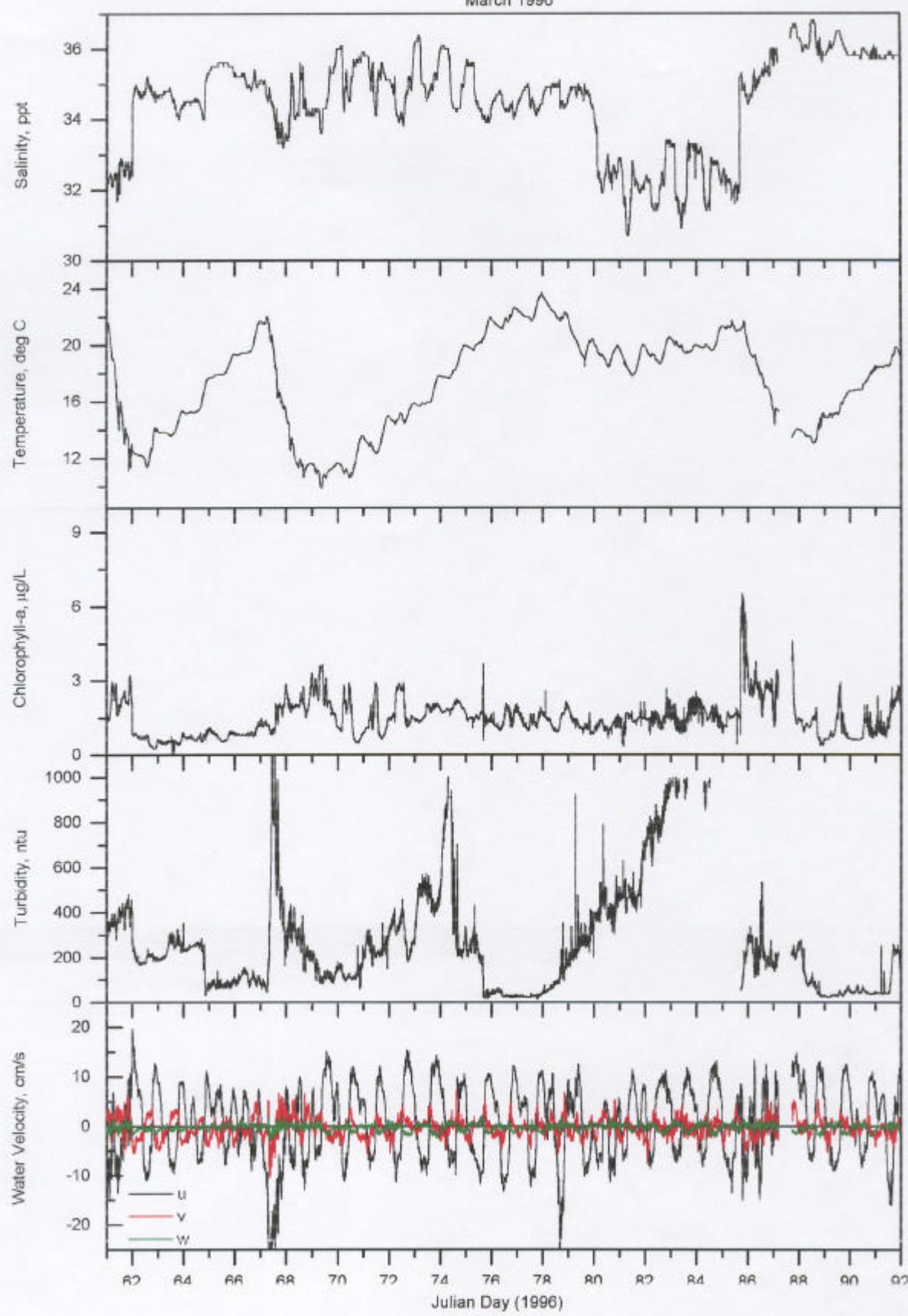
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January 1996



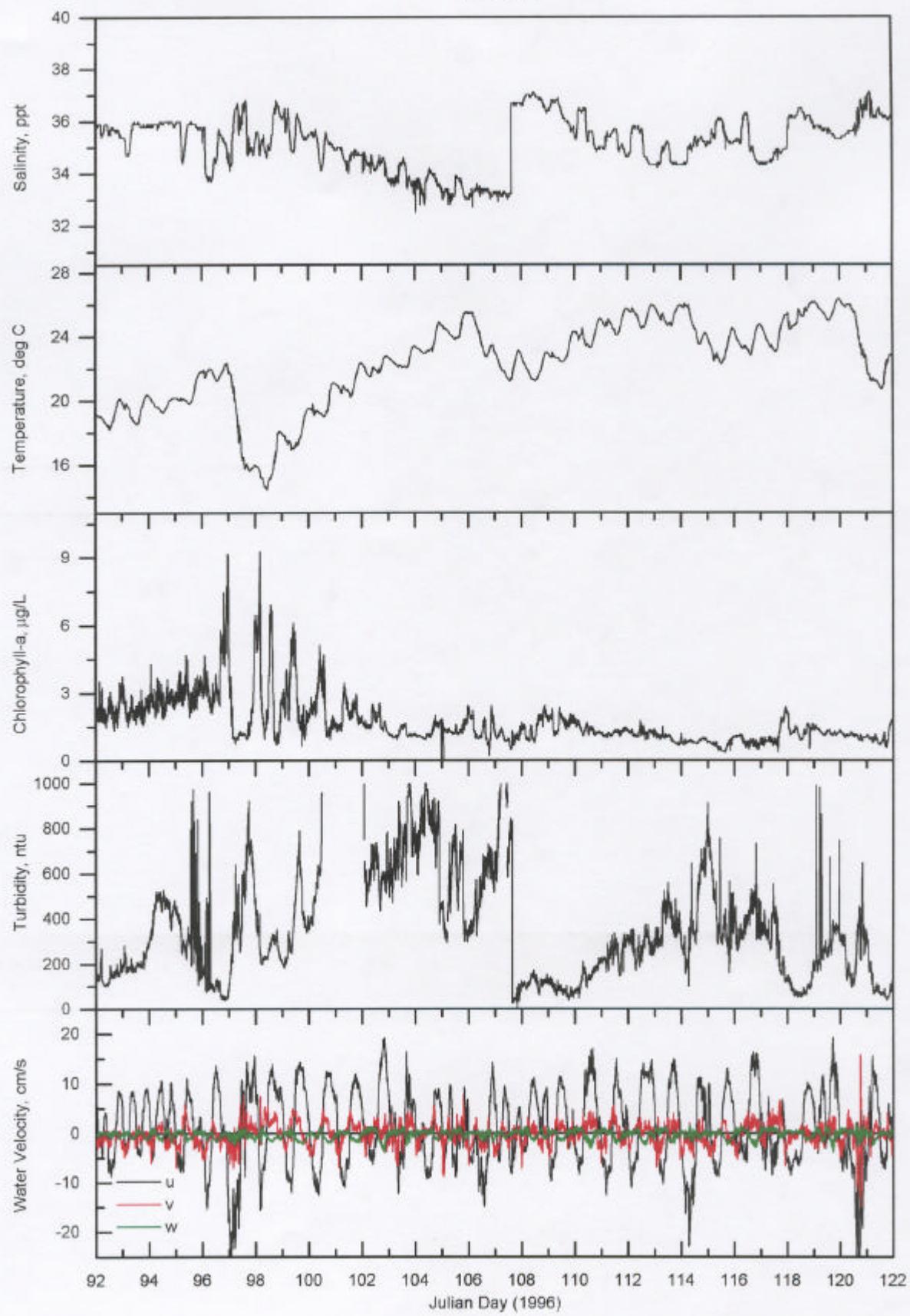
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February 1996



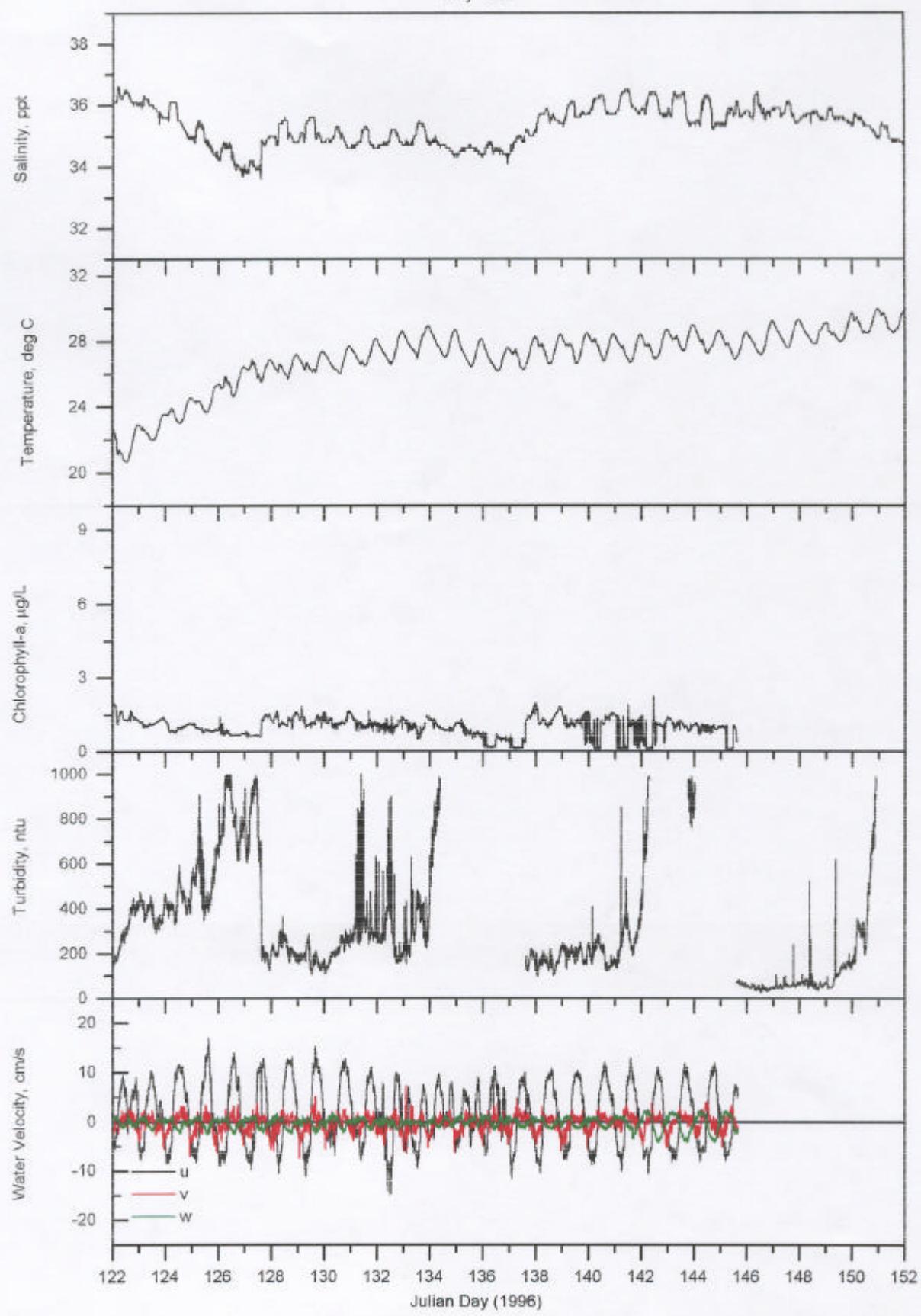
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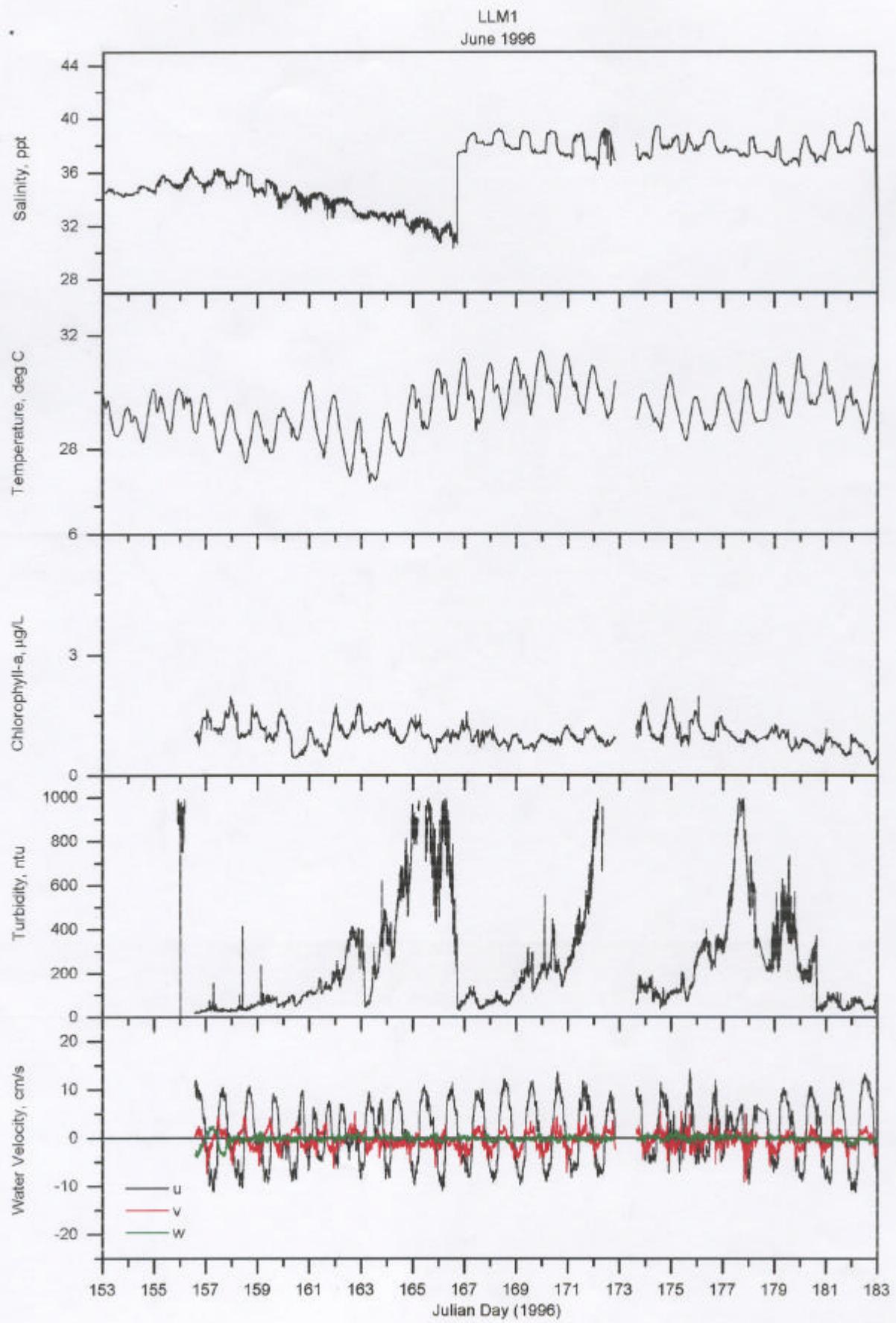


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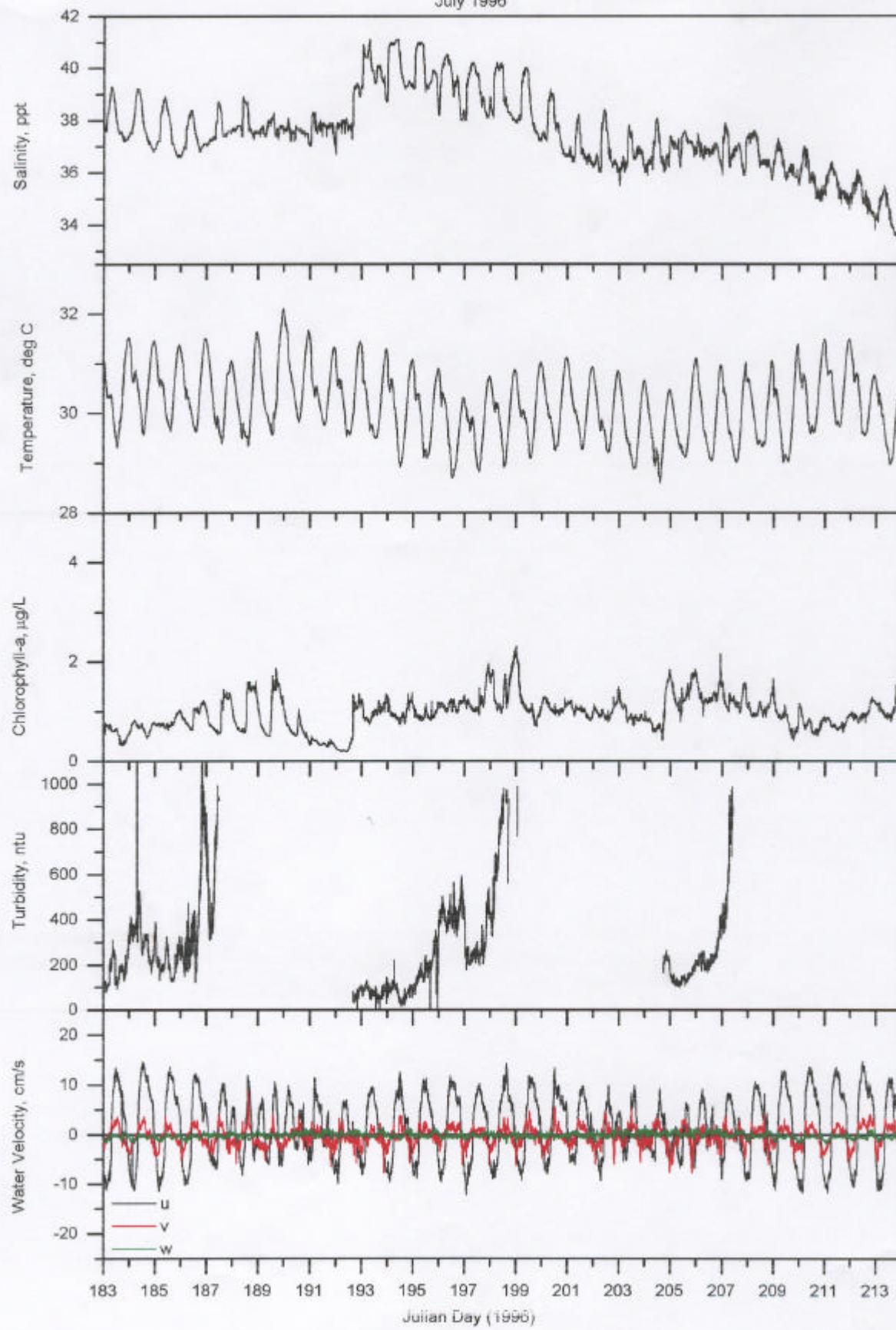


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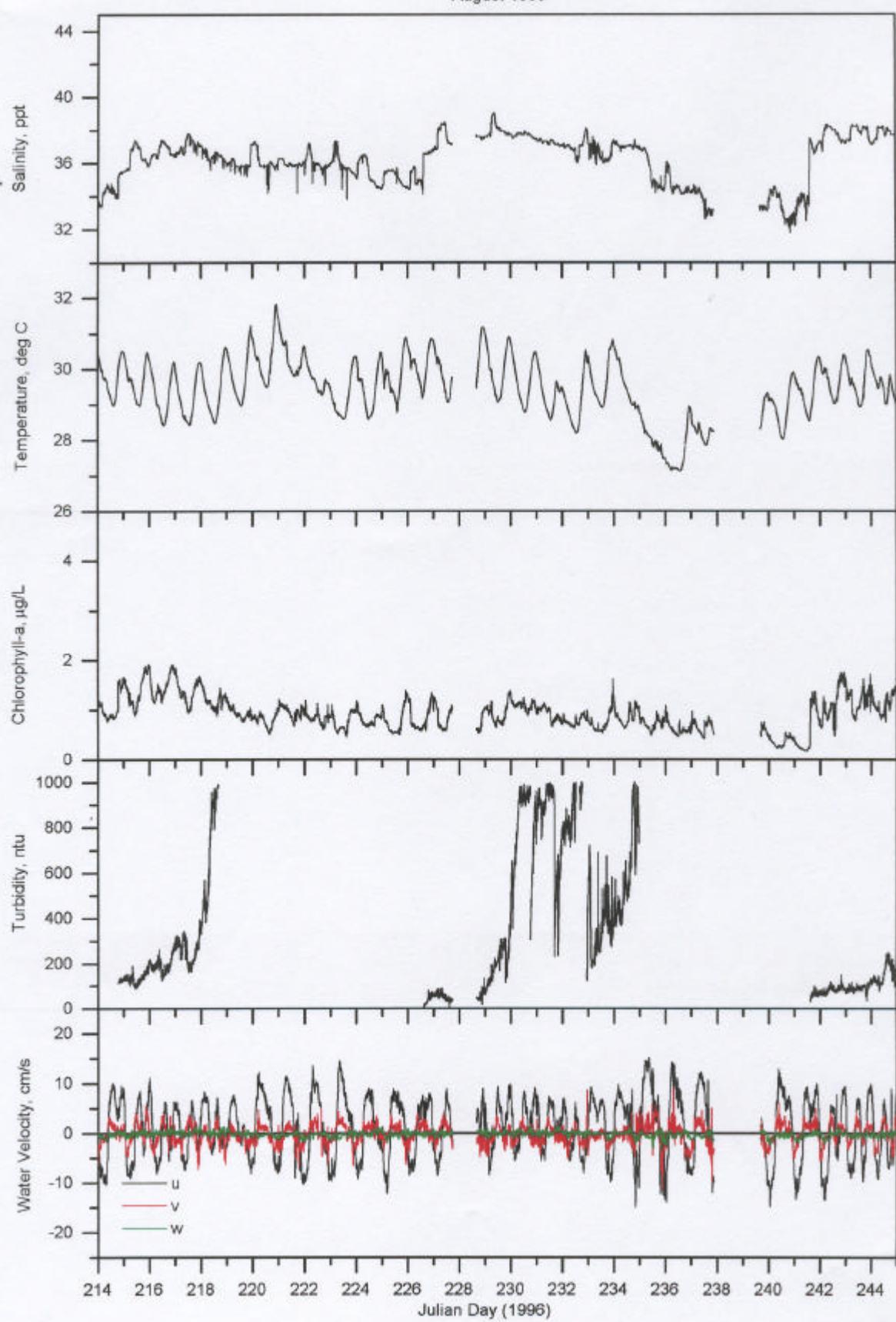




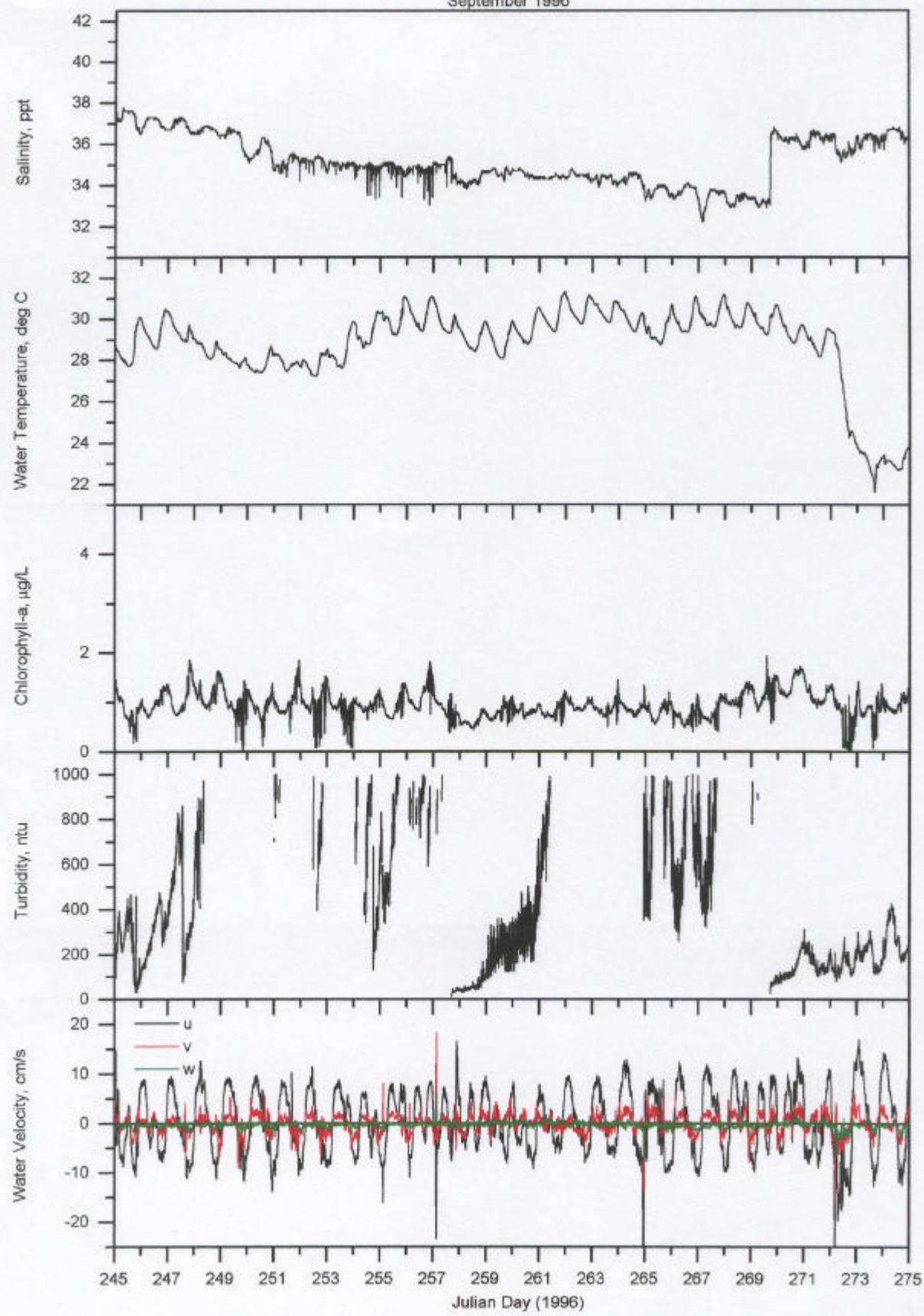
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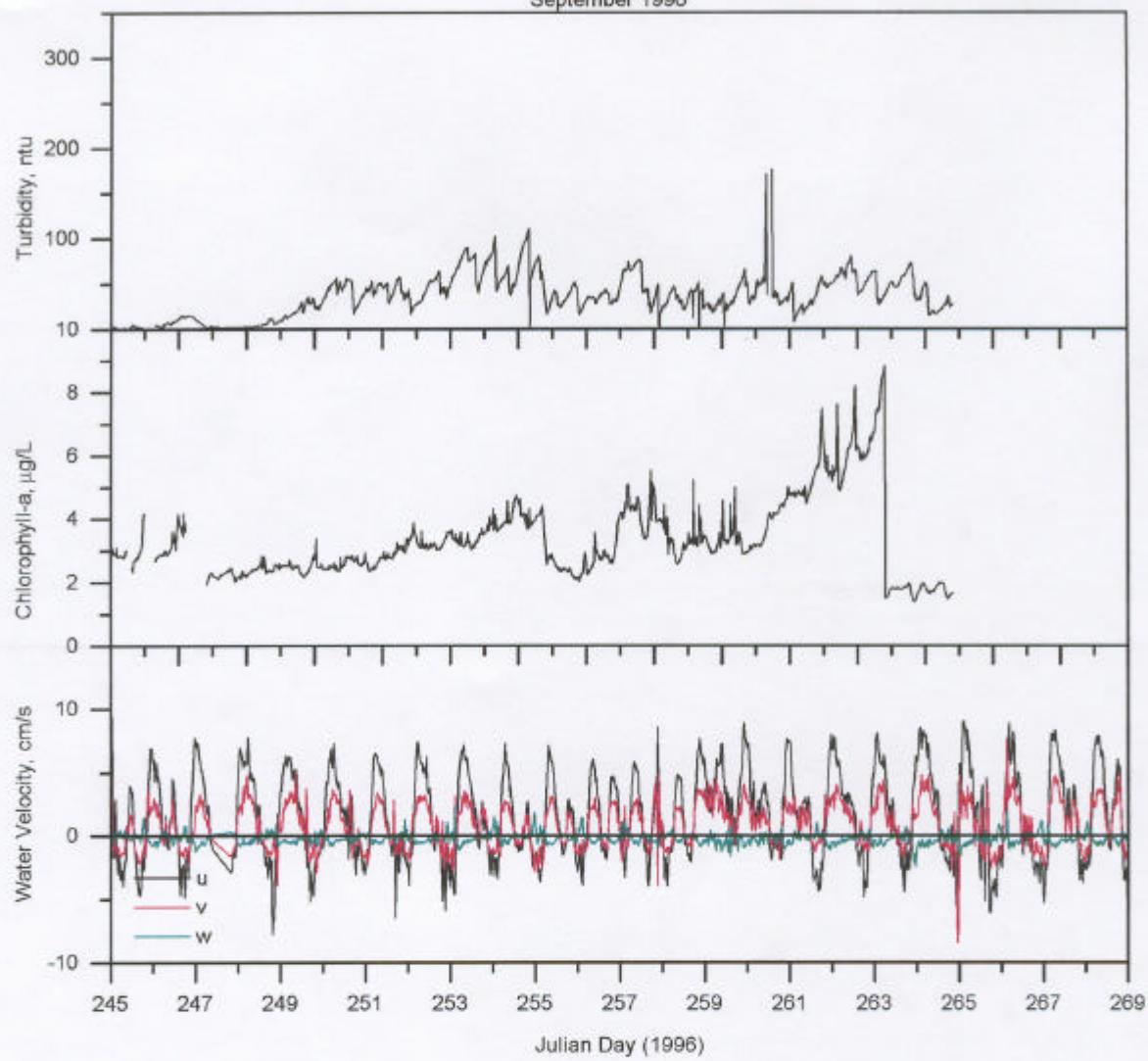
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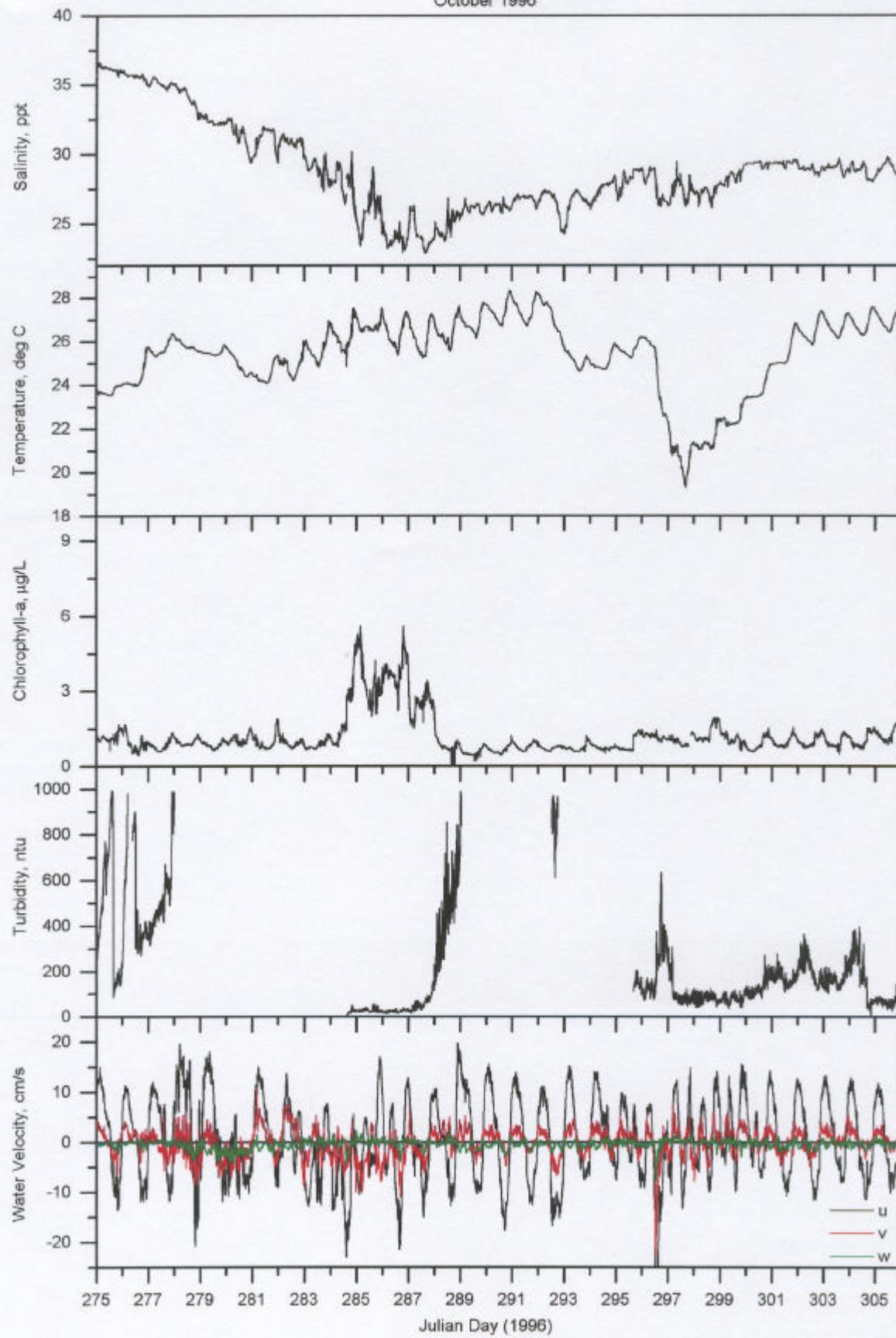
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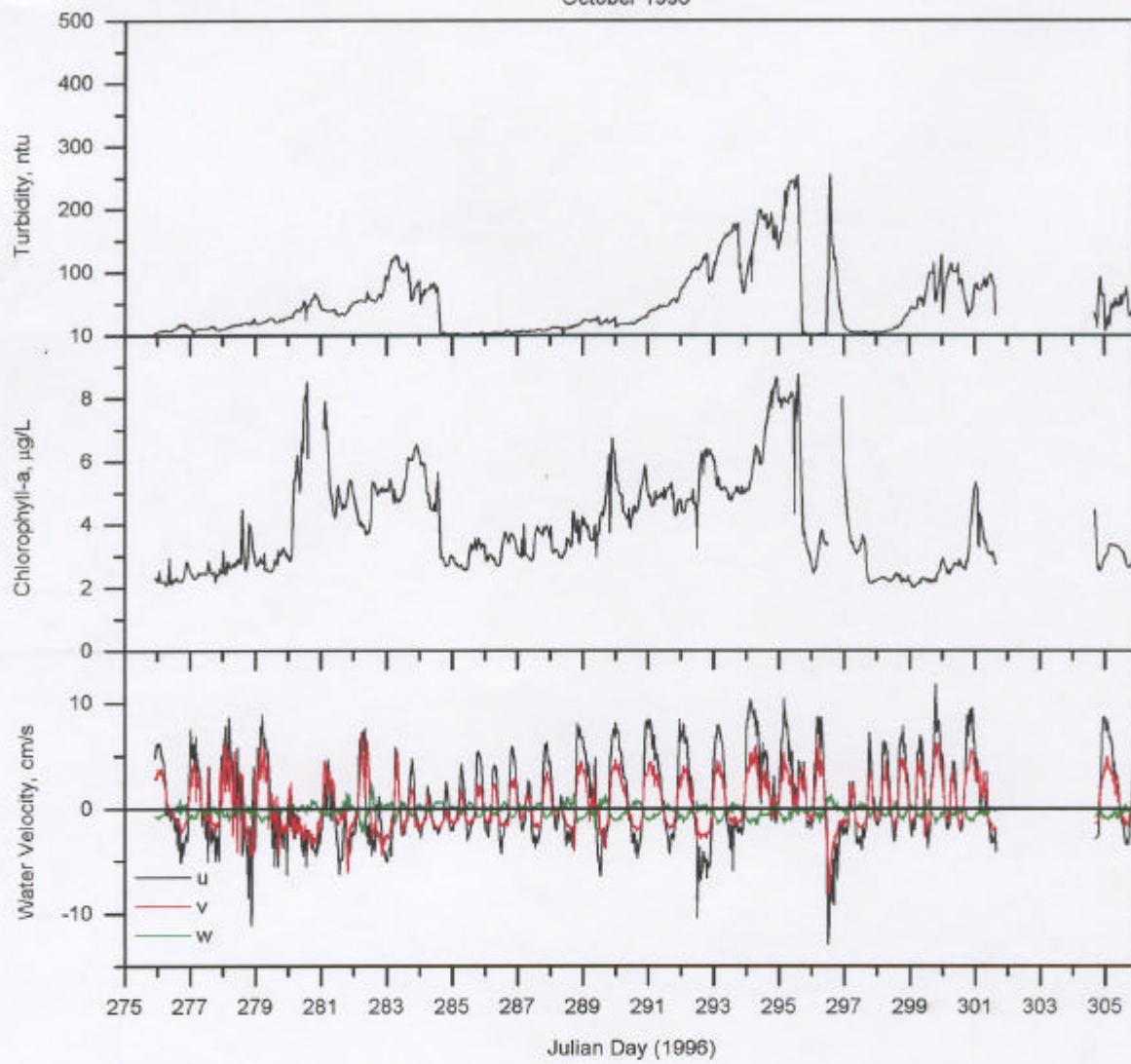
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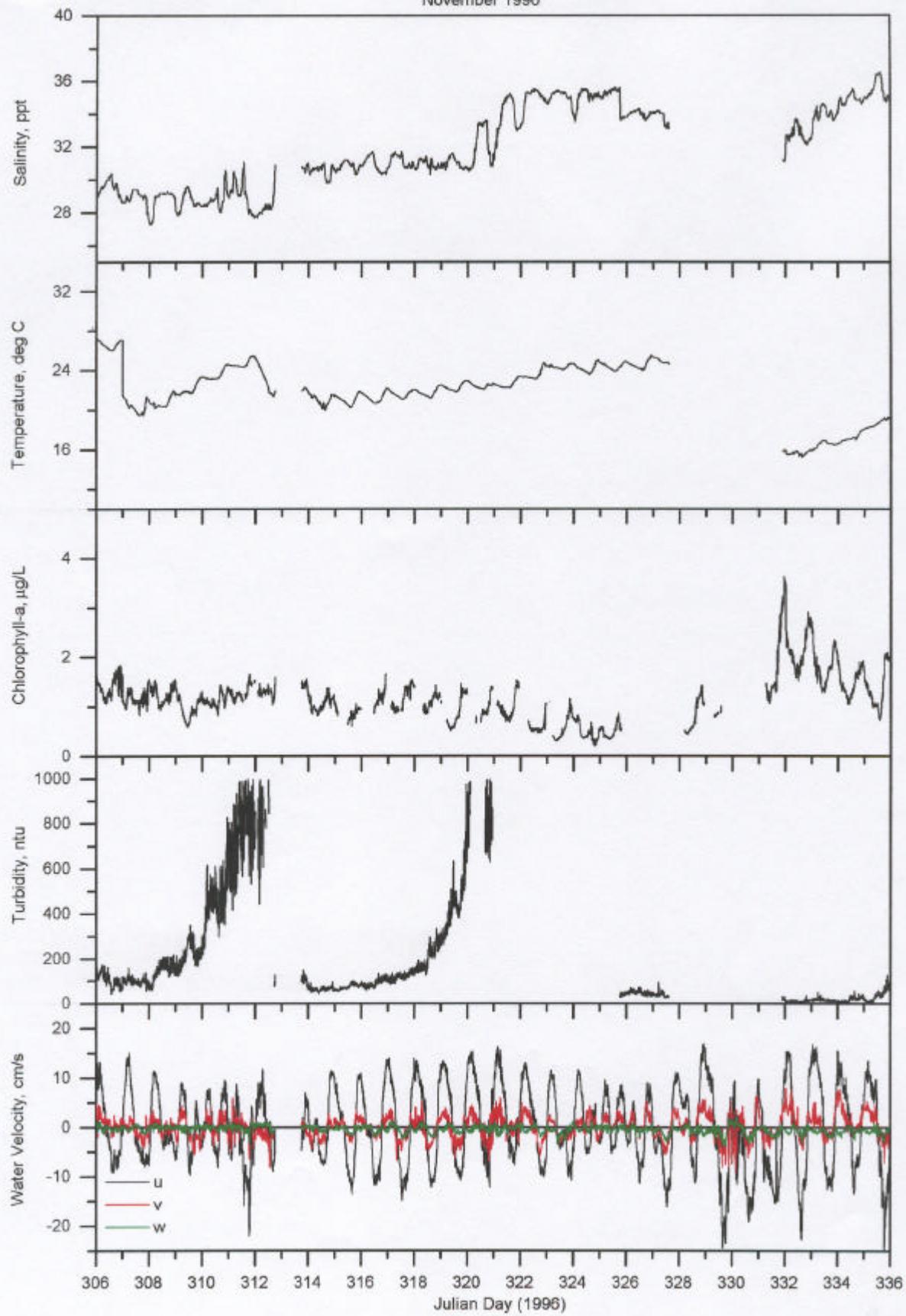
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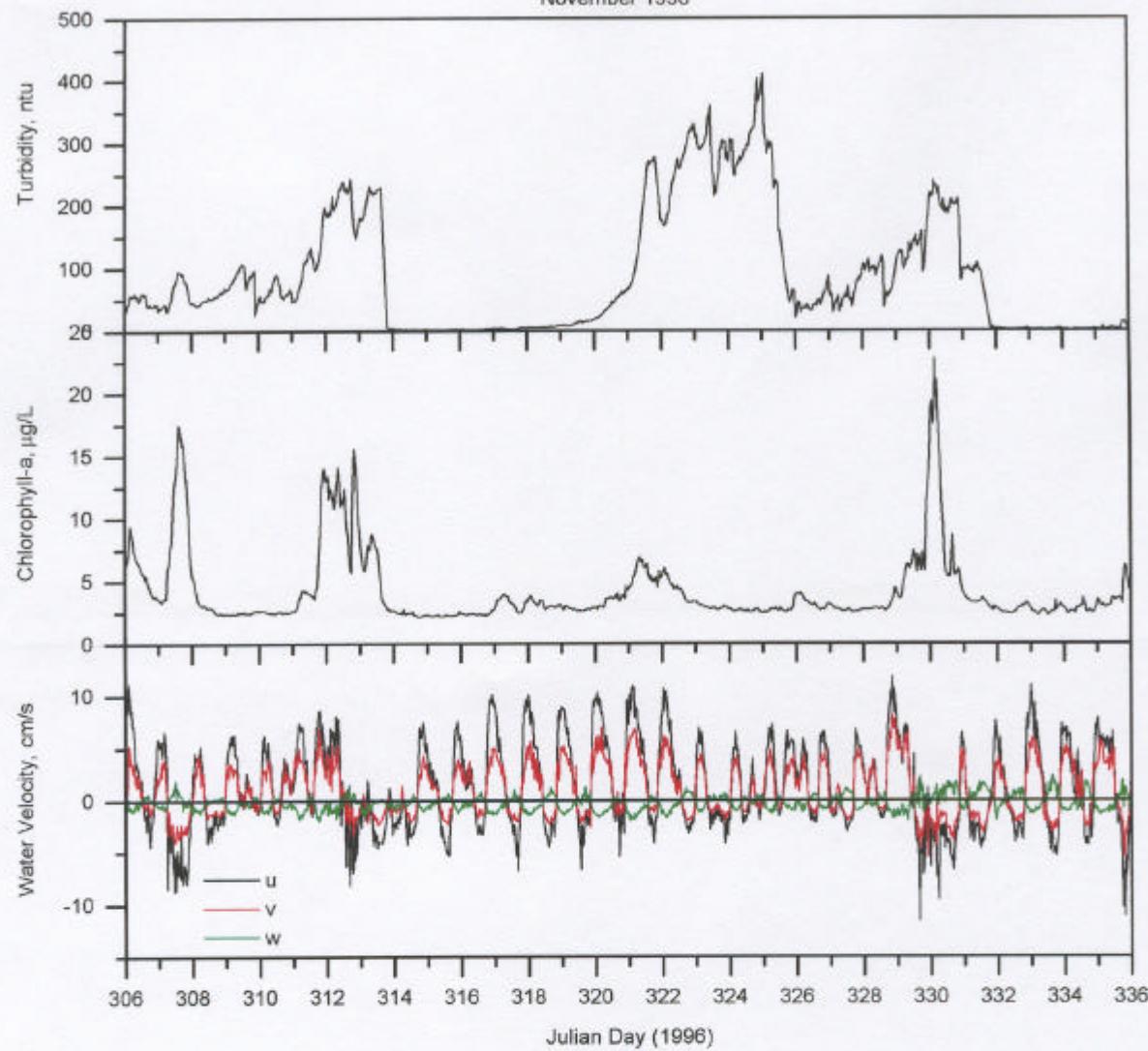
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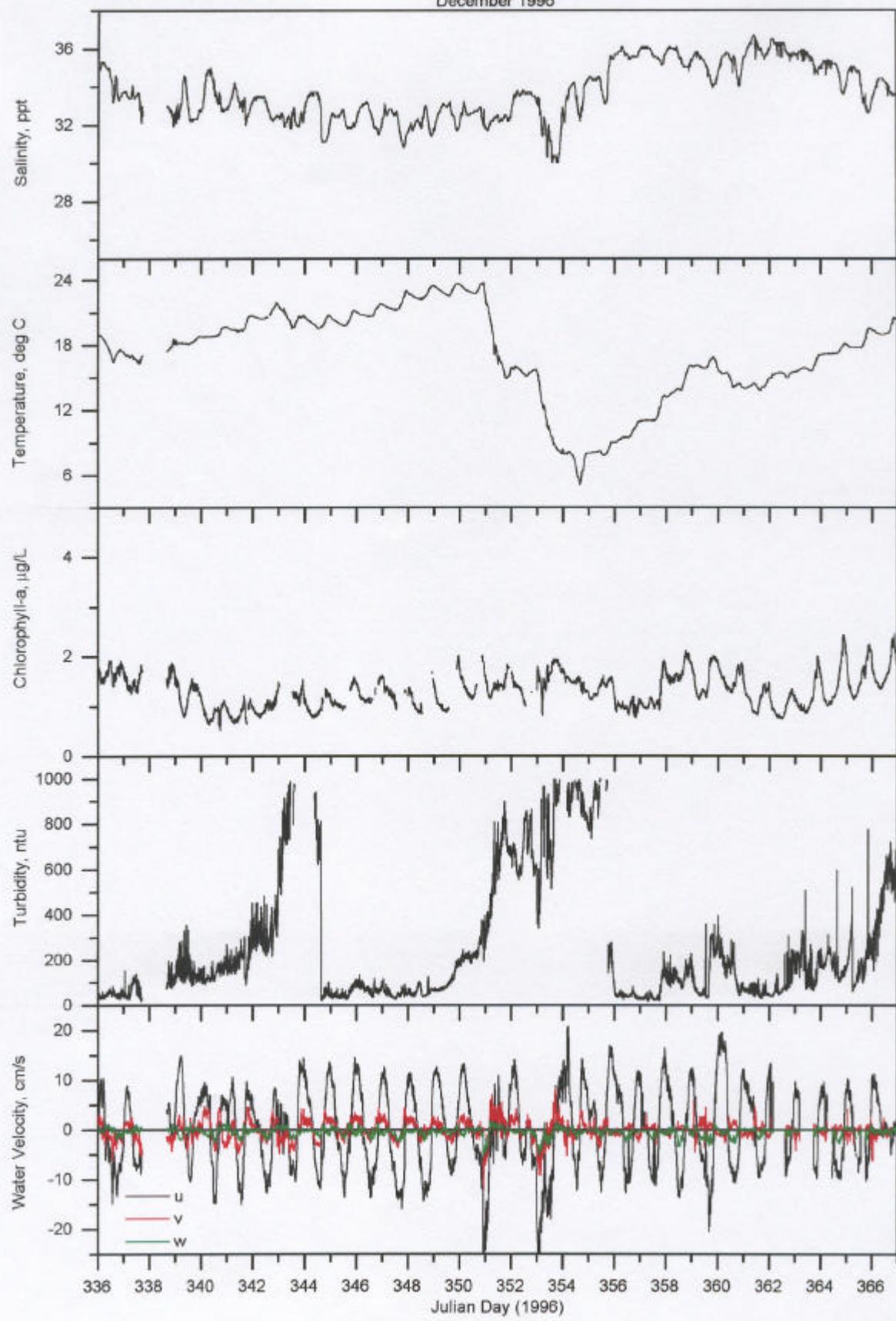
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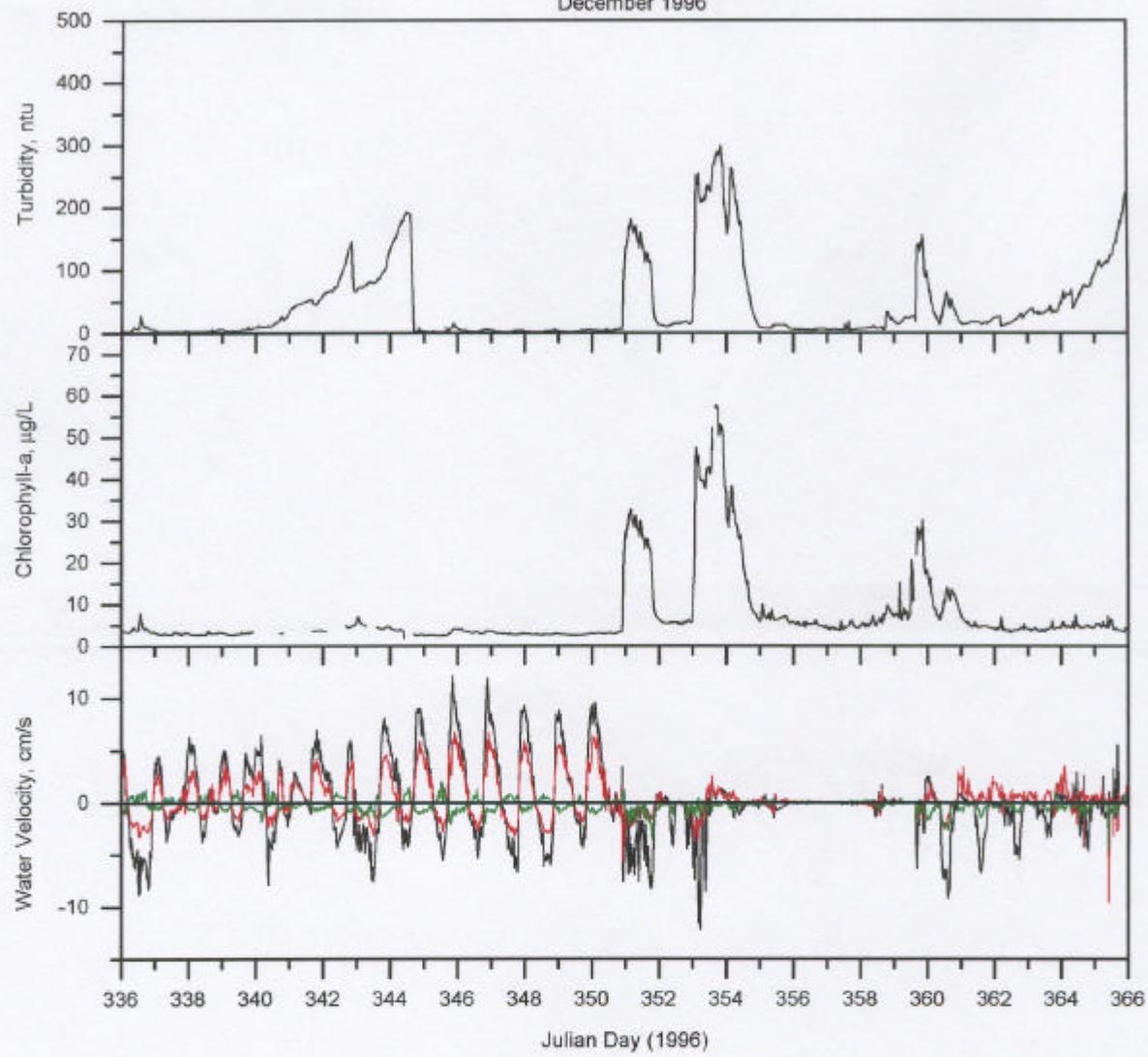
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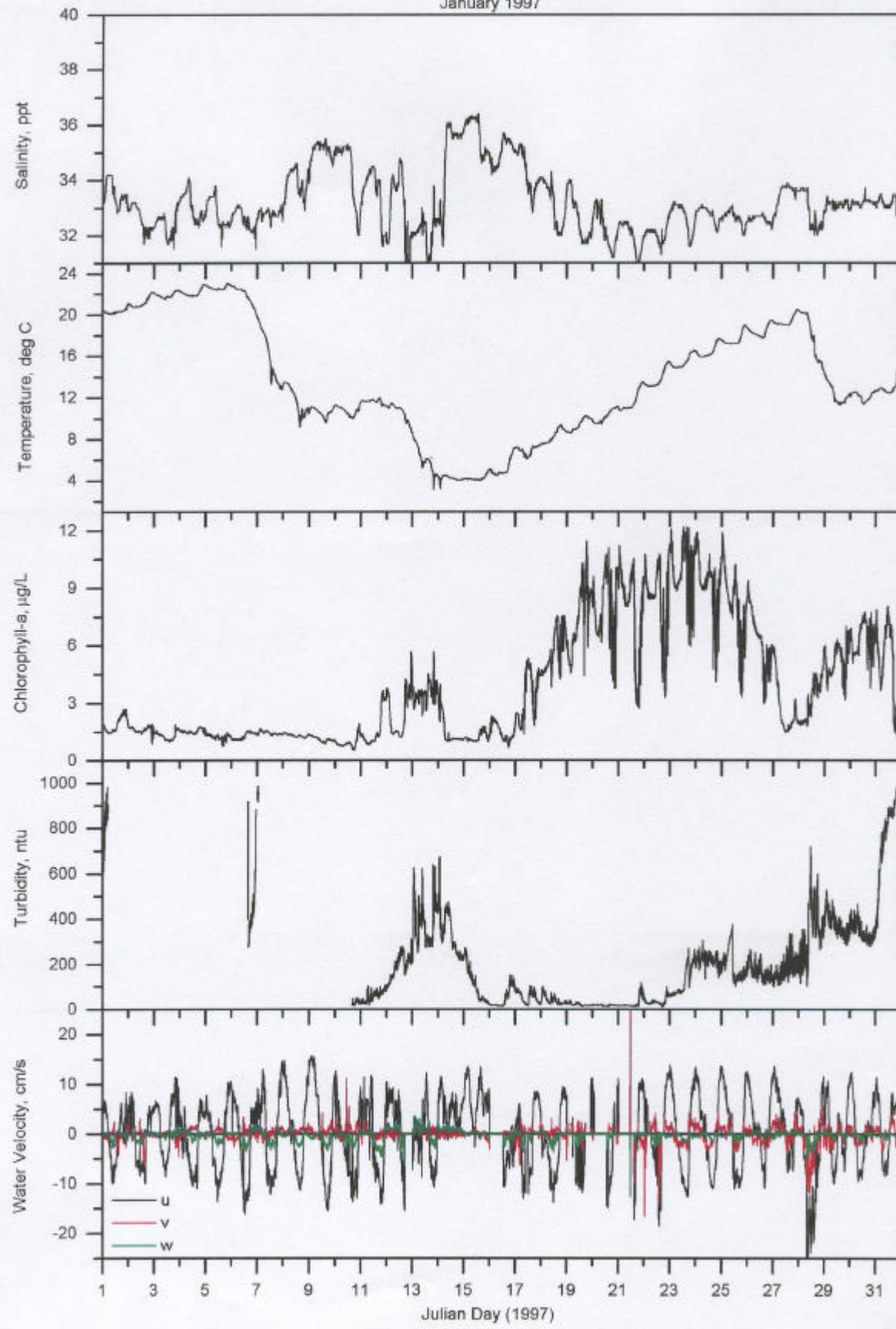
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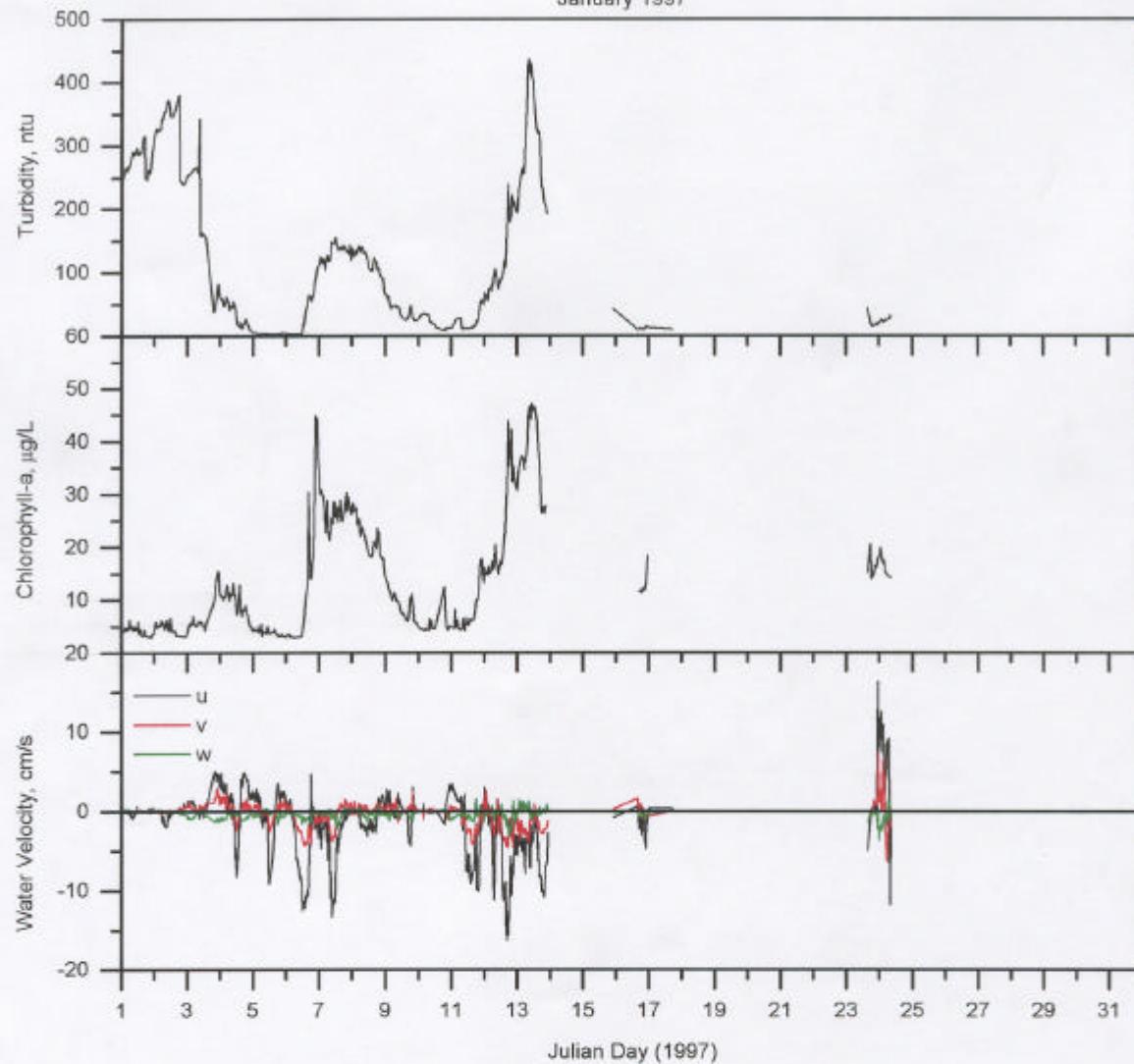
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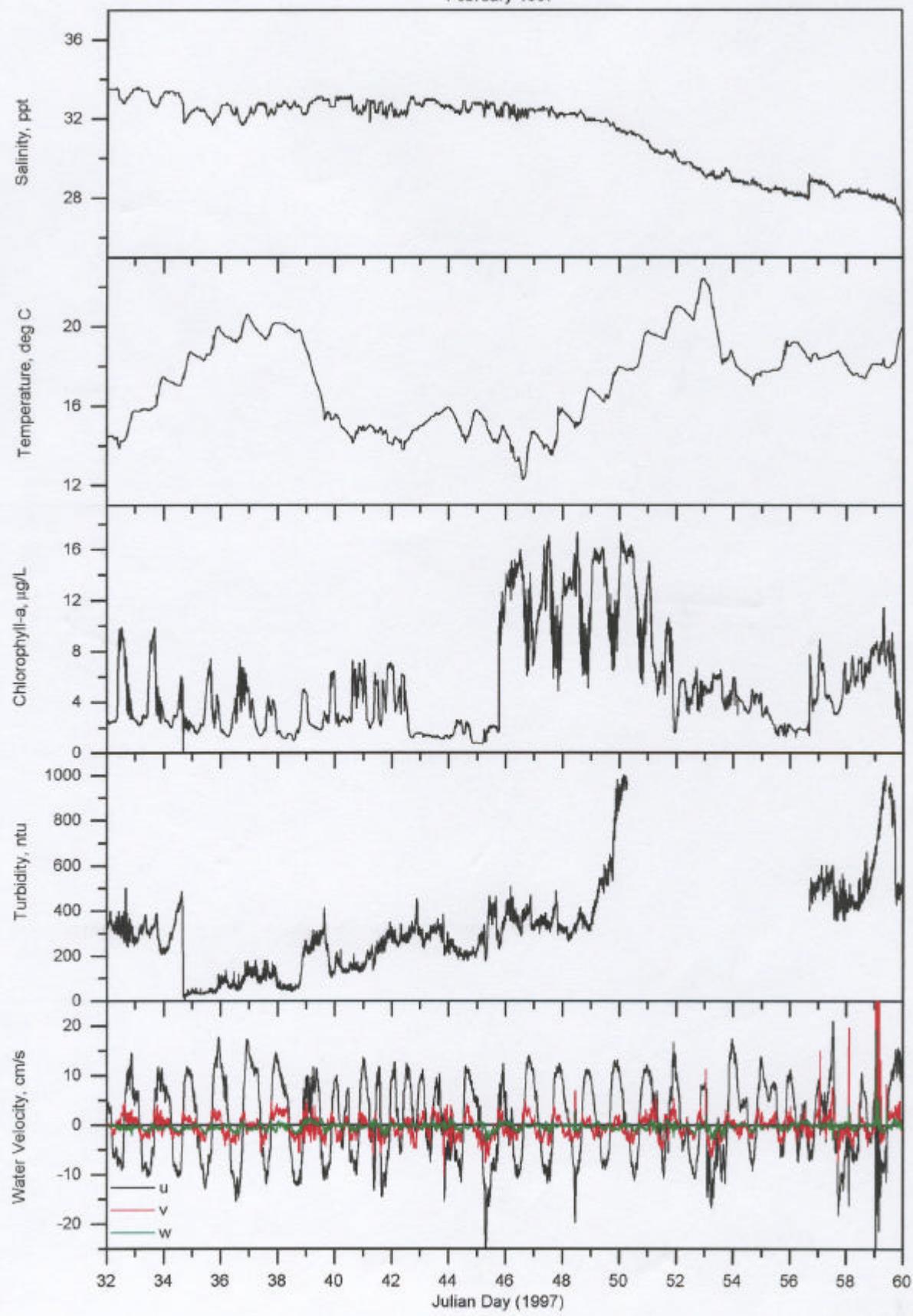
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LLM2a
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LLM1
February 1997



LLM2a
February 1997

